

A1-F18AC-WRM-000

1 October 1993

Change 5 - 15 March 2003

TECHNICAL MANUAL

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA GENERAL WIRING REPAIR PROCEDURES

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

This volume is one of two volumes and is incomplete without A1-F18AC-WRM-001.

This volume contains WP001 00 through WP156 00.

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F	5	001 02		30	0	60	3
G	5	1	3	31	0	61	3
TPDR-1	5	2	0	32	0	62	3
TPDR-2 blank	5	3	0	33	0	63	3
001 00		4	0	34	0	64	3
1	5	5	0	35	0	65	3
2	5	6	0	36	0	66	3
3	5	7	0	37	0	67	3
4	5	8	0	38	0	68	3
5	5	9	0	39	0	69	3
6 blank	5	10	0	40	0	70	3
001 01		11	0	41	0	70A added	3
1	3	12	0	42	0	70B blank added	3
2	0	13	0	43	0	71	0
3	0	14	0	44	0	72	0
4	0	15	0	45	0	73	0
5	0	16	0	46	0	74	0
6	0	17	0	47	0	75	0
7	3	18	0	48	0	76	0
8	3	19	0	49	0	77	3
9	0	20	0	50	0	78	3
10	0	21	0	51	0	78A added	3
11	0	22	0	52	0	78B blank added	3
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82	0	4	0	012 00		7	0
83	3	5	0	1	0	8 blank	0
84	3	6	0	2	0	021 00 reserved	0
84A added	3	7	0	3	0	022 00	
84B blank added	3	8	0	4 blank	0	1	0
85	0	9	0	013 00		2	0
86	0	10	0	1	0	3	0
87	0	11	0	2	0	4	0
88	0	12 blank	0	3	0	5	0
89	0	003 00		4	0	6 blank	0
90	3	1	5	5	0	023 00 reserved	0
91	3	2	5	6	0	024 00	
92 blank	3	3	5	7	0	1	0
001 03 deleted	0	4	5	8	0	2	0
002 00		5	5	9	0	025 00 reserved	0
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3	0	8 blank added	5	12	0	2	0
4 blank	0	004 00		13	0	3	0
002 01		1	5	14	0	4	0
1	0	2	3	15	0	5	0
2	0	2A added	3	16	0	6	0
3	0	2B blank added	3	17	0	7	0
4	0	3	5	18	0	8	0
5	0	4	2	014 00		027 00 reserved	0
6	0	5	2	1	0	028 00	
7	0	6	2	2	0	1	5
8	0	7	2	3	0	2	5
9	0	8	2	4	0	3	5
10	0	9	2	5	0	4	5
11	0	10	2	6	0	5	5
12	0	11	2	7	0	6	5
13	0	12	2	8	0	7	5
14	0	13	2	9	0	8 blank	5
002 02		14	2	10	0	9 deleted	5
1	0	15	2	11	0	10 deleted	5
2	0	16	2	12	0	029 00 reserved	0
3	0	17	2	015 00		030 00	
4	0	18	2	1	1	1	5
5	0	19	2	2	1	2	5
6	0	20 blank	2	3	1	3	5
002 03		004 01 deleted	0	4	1	4	5
1	0	004 02 deleted	0	5	1	5	5
2	0	005 00 reserved	0	6	1	6	5
3	0	006 00 reserved	0	7	1	7	5
4	0	007 00 reserved	0	8	1	8 blank	5
5	0	008 00 reserved	0	9	1	9 deleted	5
6	0	009 00 reserved	0	10	1	10 deleted	5
7	0	010 00		11	1	031 00	
8	0	1	0	12 blank	1	1	0
9	0	2	0	016 00 reserved	0	2	0
10	0	3	0	017 00 reserved	0	3	0
11	0	4	0	018 00 reserved	0	4	0
12	0	5	0	018 01 deleted	0	5	0
13	0	6	0	019 00 reserved	0	6 blank	0
14	0	7	0	020 00		032 00	
15	0	8	0	1	0	1	2
16 blank	0	9	0	2	0	2	2
002 04		10	0	3	0	3	0
1	0	11	0	4	0	4	0

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6	2	1	0	63	0	6	0
7	0	2	0	64	0	7	0
8	0	3	0	65	0	8	0
9	0	4	0	66	0	9	0
10	0	5	0	67	0	10 blank	0
11	0	6	0	68	0	039 00 reserved	0
12	0	7	0	036 02		040 00	
13	0	8	0	1	0	1	0
14	0	9	0	2	0	2	0
15	0	10	0	3	0	3	0
16	0	11	0	4	0	4	0
17	0	12	0	5	0	5	0
18	0	13	0	6	0	6	0
19	0	14	0	7	0	041 00 reserved	0
20	0	15	0	8	0	042 00	
21	0	16	0	9	0	1	0
22	0	17	0	10	0	2	0
23	0	18	0	11	0	3	0
24 blank	0	19	0	12	0	4	0
033 00		20	0	13	0	043 00 reserved	0
1	0	21	0	14	0	044 00 reserved	0
2	0	22	0	15	0	045 00 reserved	0
3	0	23	0	16	0	046 00 reserved	0
4	0	24	0	17	0	047 00 reserved	0
5	0	25	0	18	0	048 00 reserved	0
6	0	26	0	19	0	049 00 reserved	0
7	0	27	0	20	0	050 00	
8	0	28	0	21	0	1	0
9	0	29	0	22	0	2	0
10	0	30	0	23	0	051 00 reserved	0
11	0	31	0	24	0	052 00 reserved	0
12	0	32	0	25	0	053 00 reserved	0
13	0	33	0	26	0	054 00 reserved	0
14	0	34	0	27	0	055 00 reserved	0
15	0	35	0	28	0	056 00 reserved	0
16	0	36	0	29	0	057 00 reserved	0
17	0	37	0	30	0	058 00 reserved	0
18	0	38	0	31	0	059 00 reserved	0
19	0	39	0	32	0	060 00	
20	0	40	0	33	0	1	0
21	0	41	0	34	0	2	0
22	0	42	0	35	0	3	0
23	0	43	0	36	0	4	0
24 blank	0	44	0	37	0	5	0
034 00 reversed	0	45	0	38	0	6	0
035 00		46	0	39	0	7	0
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3	0	49	0	42	0	10	0
4	0	50	0	43	0	11	0
5	0	51	0	44	0	12	0
6	0	52	0	45	0	13	0
7	0	53	0	46	0	14	0
8	0	54	0	47	0	15	0
9	0	55	0	48	0	16	0
10	0	56	0	037 00 reserved	0	17	0
11	0	57	0	038 00		18	0
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036 00		59	0	2	0	20	0
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23	0	080 00		21 added	4	2	0
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25	0	2	0	23 added	4	4	0
26	0	3	0	24 added	4	5	0
27	0	4	0	25 added	4	6	0
28	0	5	0	26 added	4	7	0
29	0	6	0	27 added	4	8	0
30	0	7	0	28 added	4	9	0
31	0	8	0	29 added	4	10 blank	0
32	0	9	0	30 added	4	101 00	
33	0	10	0	31 added	4	1	0
34	0	11	0	32 added	4	2	0
35	0	12	0	33 added	4	3	0
36	0	13	0	34 added	4	4	0
061 00		14	0	35 added	4	5	0
1	0	15	0	36 added	4	6	0
2	0	16	0	37 added	4	7	0
3	0	17	0	38 added	4	8	0
4	0	18	0	39 added	4	9	0
5	0	19	0	40 added	4	10	0
6	0	20	0	41 added	4	11	0
7	0	21	0	42 added	4	12	0
8	0	22	0	43 added	4	13	0
9	0	23	0	44 added	4	14	0
10	0	24	0	45 added	4	15	0
11	0	25	0	46 added	4	16	0
12	0	26	0	47 added	4	17	0
13	0	27	0	48 added	4	18	0
14	0	28	0	49 added	4	19	0
15	0	29	0	50 added	4	20	0
16	0	30	0	51 added	4	21	0
17	0	081 00 reserved	0	52 added	4	22 blank	0
18	0	082 00 reserved	0	091 00		102 00 reserved	0
19	0	083 00 reserved	0	1 added	4	103 00 reserved	0
20	0	084 00 reserved	0	2 added	4	104 00	
21	0	085 00 reserved	0	3 added	4	1	0
22	0	086 00 reserved	0	4 added	4	2	0
23	0	087 00 reserved	0	5 added	4	3	0
24	0	088 00 reserved	0	6 added	4	4	0
25	0	089 00 reserved	0	7 added	4	5	0
26	0	090 00		8 added	4	6	0
27	0	1 added	4	9 added	4	7	0
28 blank	0	2 added	4	10 added	4	8	0
062 00 reserved	0	3 added	4	11 added	4	9	0
063 00 reserved	0	4 added	4	12 added	4	10 blank	0
064 00 reserved	0	5 added	4	13 added	4	105 00 reserved	0
065 00 reserved	0	6 added	4	14 added	4	106 00 reserved	0
066 00 reserved	0	7 added	4	15 added	4	107 00	
067 00 reserved	0	8 added	4	16 added	4	1	0
068 00 reserved	0	9 added	4	17 added	4	2	0
069 00 reserved	0	10 added	4	18 blank added	4	3	0
070 00 deleted	5	11 added	4	092 00 reserved	0	4	0
071 00 deleted	5	12 added	4	093 00 reserved	0	5	0
072 00 reserved	0	13 added	4	094 00 reserved	0	6	0
073 00 reserved	0	14 added	4	095 00 reserved	0	7	0
074 00 reserved	0	15 added	4	096 00 reserved	0	8	0
075 00 reserved	0	16 added	4	097 00 reserved	0	9	0
076 00 reserved	0	17 added	4	098 00 reserved	0	10	0
077 00 reserved	0	18 added	4	099 00 reserved	0	11	0
078 00 reserved	0	19 added	4	100 00		12	0
079 00 reserved	0	20 added	4	1	0	13	0

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5	0	12	0	5	0	3	0
6	0	13	0	6	0	4	0
7	0	14	0	7	0	5	0
8	0	15	0	8	0	6	0
109 00 reserved	0	16	0	9	0	7	0
110 00 reserved	0	17	0	10	0	8	0
111 00		18	0	123 00		9	0
1	0	19	0	1	0	10	0
2	0	20 blank	0	2	0	11	0
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5	0	2	0	5	0	14	0
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7	0	4	0	7	0	16	0
8	0	5	0	8	0	17	0
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11	0	8	0	2 added	3	132 00 reserved	0
12	0	9	0	3 added	3	133 00	
13	0	10 blank	0	4 added	3	1	0
14 blank	0	119 00		5 added	3	2	0
112 00		1	0	6 added	3	3	0
1	1	2	0	7 added	3	4	0
2	1	3	0	8 added	3	5	0
3	0	4	0	9 added	3	6	0
4	0	5	0	10 added	3	7	0
5	0	6	0	11 added	3	8	0
6	0	7	0	12 added	3	9	0
7	0	8	0	13 added	3	10	0
8	0	9	0	14 added	3	11	0
9	0	10	0	15 added	3	12	0
10	0	120 00		16 added	3	13	0
11	0	1	0	17 added	3	14	0
12	0	2	0	18 added	3	134 00	
13	0	3	0	19 added	3	1	0
14	0	4	0	20 added	3	2	0
15	0	5	0	21 added	3	3	0
16	0	6	0	22 added	3	4	0
17	0	7	0	23 added	3	5	0
18 blank	0	8	0	24 added	3	6	0
113 00		9	0	25 added	3	7	0
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2	0	11	0	125 00 reserved	0	9	0
3	0	12	0	126 00 reserved	0	10	0
4	0	121 00		127 00		135 00 reserved	0
5	0	1	0	1	0	136 00 reserved	0
6 blank	0	2	0	2	0	137 00	
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115 00 reserved	0	4	0	4	0	2	0
116 00 reserved	0	5	0	5	0	3	0
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2	0	8	0	8	0	6	0
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9	0	3	0	21	0	4	0
10	0	4	0	22	0	5	0
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139 00 reserved	0	6	0	24	0	7	0
140 00		7	0	25	0	8	0
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9	0	16	0	34	0	17	0
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12	0	19	0	37	0	20	0
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16	0	145 00 reserved	0	41	5	24 blank	0
17	0	146 00 reserved	0	42	0	153 00	
18	0	147 00 reserved	0	151 00		1	0
19	0	148 00 reserved	0	1	0	2	0
20	0	149 00 reserved	0	2	0	3	0
21	0	150 00		3	0	4	0
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2	0	4	0	7	0	8	0
3	0	5	0	9	0	9	0
4	0	6	0	10	0	10	0
5	0	7	0	11	0	11	0
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12	0	14	0	18	0	18	0
13	0	15	0	19	0	19	0
14 blank	0	16	0	20 blank	0	20 blank	0
142 00 reserved	0	17	0	152 00		154 00 reserved	0
143 00 reserved	0	18	0	1	0	155 00 reserved	0
144 00		19	0	2	0	156 00 reserved	0
1	0						

LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

This WP supersedes TPDR WP, dated 15 April 2002.

1. The TPDRs listed below have been incorporated in this issue.

IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER	LOCATION
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96908-03-0001	WP 150 00, Page 41

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Fabrication of Shielded Harness Terminated With Electromagnetic Interference (EMI) and Tape Wrapped Thermal Barrier Backshells	061 00
Fabrication of Shielded Harness Terminated With Electromagnetic Interference (EMI) Backshells	060 00
Protective Boot Installation for Environmental Type Connectors With Metal Cable Clamps	080 00
Protective Boot Installation for Environmental Type Connectors With S3957XXX-34 Molded Plastic Cable Clamps Backshells	090 00
Repair of Silicone Rubber Tape Boots	050 00
Tape Wrapped Thermal Barrier Protective Boot Installation for Environmental Type Connectors With Molded Plastic Cable Clamps	091 00
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AN3116-2 AN Type Coax Connector Repair	104 00
AV628-2 (MIL-C-81582) Connector Repair	160 00
BJ8-12EXX-XXX (MIL-C-83723 Series 3) with Tape Wrapped Thermal Barrier Protective Boot Installation Connector Repair	150 00
Data Cable Assembly Replaceable Front Ends	137 00
DD072750925 and DS07-27S-025 (MIL-C-81703) Connector Repair	177 00
DPX2NE41723 (MIL-C-81659) Connector Repair	200 00
DS07-27S-025 and DPX2NE41723 (MIL-C-81703) Connector Repair	177 00
DS07-27-XXXXXXX (MIL-C-81703) Connector Repair	178 00
D38999 (MIL-C-38999 Series 3) Connector Repair	168 00
E-794 and 2115-1-5 (MIL-C-39012) BNC Type Coax Connector Repair	111 00
GA121-1 Connector Repair	193 00
KJL6J9, KJL6T9, MS27467 and 88-4887XX (MIL-C-38999 Series 1) Connector Repair	169 00
KJL6T9, KJL6J9, MS27467 and 88-4887XX (MIL-C-38999 Series 1) Connector Repair	169 00
KJL7YC103451-3 and MS27468 (MIL-C-38999 Series 1) Connector Repair	170 00
KP-8610-120-602 (MIL-C-39012) Coax Connector Repair	100 00
LJT01RTXX-XXX014 and MS27656 (MIL-C-38999 Series 1) Connector Repair	172 00
L22TF96PN1 and L22TF96S8N1 (MIL-C-83723) Multi-Pin Triax Connector Repair	151 00
L22TF96S8N1 and L22TF96PN1 (MIL-C-83723) Multi-Pin Triax Connector Repair	151 00
MIL-C-24308 M24308 Connector Repair	205 00
MIL-C-25516 M25516/XX-XX-XX Coax Connector Repair	133 00

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MIL-C-25516 1211-XX and 1212-XX Coax Connector Repair	134 00
MIL-C-26482 M22TR10XP6N-H2 Coax Connector Repair	152 00
MIL-C-26482 Series 1 MS3116 Connector Repair	194 00
MIL-C-26482 MS3470, MS3472, MS3475, and MS3476 Rear Release Type Connector Repair	161 00
MIL-C-26482 88-556119-70S Connector Repair	162 00
MIL-C-26500 MS24266 Connector Repair	182 00
MIL-C-3643 19900 N Type Coax Connector Repair	108 00
MIL-C-38999 Series 1 KJL6J9, KJL6T9, MS27467 and 88-4887XX Connector Repair	169 00
MIL-C-38999 Series 1 LJT01RTXX-XXX014 and MS27656 Connector Repair	172 00
MIL-C-38999 Series 1 KJL7YC103451-3 and MS27468 Connector Repair	170 00
MIL-C-38999 Series 1 10-550598-35P Connector Repair	195 00
MIL-C-38999 Series 2 MS27473 Connector Repair	171 00
MIL-C-38999 Series 3 D38999 Connector Repair	168 00
MIL-C-39012 E-794 and 2115-1-5 BNC Type Coax Connector Repair	111 00
MIL-C-39012 KP-8610-120-602 Coax Connector Repair	100 00
MIL-C-39012 M39012-XX-XXXX BNC Type Coax Connector Repair	112 00
MIL-C-39012 M39012/XX-XXX and 1119-079-A721 N Type Coax Connector Repair	107 00
MIL-C-39012 M39012-XX-XXXX and 31-4372-X TNC Type Coax Connector Repair	117 00
MIL-C-39012 M39012/XX-XXXX SC Type Coax Connector Repair	127 00
MIL-C-39012 M39012/XX-XXXX SMA Type Coax Connector Repair	130 00
MIL-C-39012 SF4592-6005 TNC Type Coax Connector Repair	122 00
MIL-C-39012 101-T4100A-75 TNC Type Coax Connector Repair	118 00
MIL-C-39012 31-3228-(), 31-3229-(), 31-4229-(), 82-3223-(), 82-5627-() and 82-5676-1 Coax Connector Repair	101 00
MIL-C-39012 31-33449-XX, 31-34179-XX, 5801-XXXX, 5811-XXXX and 5813-XXXX Twinax Connector Repair	140 00
MIL-C-39012 31-33819-13 and 5841-XXXX Twinax Connector Repair	141 00
MIL-C-39012 31-4371-3001 and 31-4371-3009 TNC Type Coax Connector Repair	119 00
MIL-C-39012 31-8473-5 TNC Type Coax Connector Repair	123 00
MIL-C-39012 31-34181-2 Triax Connector Repair	120 00
MIL-C-39012 39100-10 BNC Type Coax Connector Repair	113 00
MIL-C-39012 4545-6010 TNC Type Coax Connector Repair	121 00
MIL-C-39012 4806-XXXX, 4811-XXXX, 4816-XXXX, 4841-XXXX and 4846-XXXX BNC Type Triax Connector Repair	144 00
MIL-C-49142 82-5770, 82-5772 and 82-5773 TNC Type Triax Connector Repair	124 00
MIL-C-5015 MS3450, MS3456 and MS3459 Connector Repair	157 00
MIL-C-81511 Series 4 M81511 Connector Repair	165 00
MIL-C-81582 AV628-2 Connector Repair	160 00
MIL-C-81659 DPX2NE41723 Connector Repair	200 00
MIL-C-81659 1-207595-X, 1-207596-X, 207595-X, 207596-X Connector Repair	201 00
MIL-C-81703 DD07-27S-025 and DS07-27S-025 Connector Repair	177 00
MIL-C-81703 DS07-27-XXXXXXXX Connector Repair	178 00
MIL-C-81703 MS3147 Connector Repair	179 00
MIL-C-81703 17371-0108 Connector Repair	180 00
MIL-C-83723 L22TF96PN1 and L22TF96S8N1 Multi-Pin Triax Connector Repair	151 00

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CONNECTOR REPAIR (Cont.)	
MIL-C-83723 Series 3 BJ8-12EXX-XXX with Tape Wrapped Thermal Barrier	
Protective Boot Installation Connector Repair	150 00
MIL-C-83723 Series 3 M83723-76A2232N Connector Repair	153 00
MS24266 (MIL-C-26500) Connector Repair	182 00
MS27467, KJL6J9, KJL6T9 and 88-4887XX (MIL-C-38999 Series 1) Connector Repair	169 00
MS27468 and KJL7YC103451-3 (MIL-C-38999 Series 1) Connector Repair	170 00
MS27473 (MIL-C-38999 Series 2) Connector Repair	171 00
MS27656 and LJT01RTXX-XXX014 (MIL-C-38999 Series 1) Connector Repair	172 00
MS3116 (MIL-C-26482 Series 1) Connector Repair	194 00
MS3147 (MIL-C-81703) Connector Repair	179 00
MS3450, MS3456 and MS3459 (MIL-C-5015) Connector Repair	157 00
MS3456, MS3450 and MS3459 (MIL-C-5015) Connector Repair	157 00
MS3459, MS3450 and MS3456 (MIL-C-5015) Connector Repair	157 00
MS3470, MS3472, MS3475, and MS3476 (MIL-C-26482) Rear Release Type Connector	
Repair	161 00
MS3472, MS3470, MS3475, and MS3476 (MIL-C-26482) Rear Release Type Connector	
Repair	161 00
MS3475, MS3470, MS3472, and MS3476 (MIL-C-26482) Rear Release Type Connector	
Repair	161 00
MS3476, MS3470, MS3472, and MS3475 (MIL-C-26482) Rear Release Type Connector	
Repair	161 00
M22TR10XP6N-H2 (MIL-C-26482) Coax Connector Repair	152 00
M24308 (MIL-C-24308) Connector Repair	205 00
M25516/XX-XX-XX (MIL-C-25516) Coax Connector Repair	133 00
MIL-C-39012 M39012-XX-XXXX BNC Type Coax Connector Repair	112 00
MIL-C-39012 M39012/XX-XXXX SC Type Coax Connector Repair	127 00
M39012/XX-XXXX (MIL-C-39012) SMA Type Coax Connector Repair	130 00
M39012/XX-XXXX and 31-4372-X (MIL-C-39012) TNC Type Coax Connector Repair	117 00
M39012/XX-XXX and 1119-079-A721 (MIL-C-39012) N Type Coax Connector Repair	107 00
M81511 (MIL-C-81511 Series 4) Connector Repair	165 00
M83723-76A2232N (MIL-C-83723 Series 3) Connector Repair	153 00
Relay Socket Modules Repair	173 00
SF4592-6005 (MIL-C-39012) TNC Type Coax Connector Repair	122 00
TVS06RK-XX-XXXX and TVS07RK-XX-XXXX Connector Repair	190 00
TVS07RK-XX-XXXX and TVS06RK-XX-XXXX Connector Repair	190 00
ON089560-1 Connector Repair	184 00
1-207595, 1-207596, 207595, 207596 (MIL-C-81659) Connector Repair	201 00
1-207596, 1-207595, 207595, 207596 (MIL-C-81659) Connector Repair	201 00
10-550598-35P (MIL-C-38999 Series 1) Connector Repair	195 00
101-T4100A-75 (MIL-C-39012) TNC Type Coax Connector Repair	118 00
1119-079-A721 and M39012/XX-XXX (MIL-C-39012) N Type Coax Connector Repair	107 00
1211-XX and 1212-XX (MIL-C-25516) Coax Connector Repair	134 00
1212-XX and 1211-XX (MIL-C-25516) Coax Connector Repair	134 00
165-XX-XXXX (5M30-XX-XXXX) Connector Repair	196 00
17371-0108 (MIL-C-81703) Connector Repair	180 00
19900 (MIL-C-3643) N Type Coax Connector Repair	108 00

Title	WP Number
CONNECTOR REPAIR (Cont.)	
207595, 1-207595, 1-207596, 207596 (MIL-C-81659) Connector Repair	201 00
207596, 1-207595, 1-207596, 207595 (MIL-C-81659) Connector Repair	201 00
2115-1-5 and E-794 (MIL-C-39012) BNC Type Coax Connector Repair	111 00
31-3228-(), 31-3229-(), 31-4229-(), 82-3223-(), 82-5627-() and 82-5676-1 (MIL-C-39012)	
Coax Connector Repair	101 00
31-3229-(), 31-3228-(), 31-4229-(), 82-3223-(), 82-5627-() and 82-5676-1 (MIL-C-39012)	
Coax Connector Repair	101 00
31-33449-XX, 31-34179-XX, 5801-XXXX, 5811-XXXX and 5813-XXXX (MIL-C-39012)	
Twinax Connector Repair	140 00
31-33819-13 and 5841-XXXX (MIL-C-39012) Twinax Connector Repair	141 00
31-34179-XX, 31-33449-XX, 5801-XXXX, 5811-XXXX and 5813-XXXX (MIL-C-39012)	
Twinax Connector Repair	140 00
31-34181-2 (MIL-C-39012) TRIAX Connector Repair	120 00
31-4229-(), 31-3228-(), 31-3229-(), 82-3223-(), 82-5627-() and 82-5676-1 (MIL-C-39012)	
Coax Connector Repair	101 00
31-4371-3001 and 31-4371-3009 (MIL-C-39012) TNC Type Coax Connector Repair	119 00
31-4371-3009 and 31-4371-3001 (MIL-C-39012) TNC Type Coax Connector Repair	119 00
31-4372-X and M39012-XX-XXXX (MIL-C-39012) TNC Type Coax Connector Repair	117 00
31-8473-5 (MIL-C-39012) TNC Type Coax Connector Repair	123 00
39100-10 (MIL-C-39012) BNC Type Coax Connector Repair	113 00
4545-6010 (MIL-C-39012) TNC Type Coax Connector Repair	121 00
4806-XXXX, 4811-XXXX, 4816-XXXX, 4841-XXXX and 4846-XXXX (MIL-C-39012)	
BNC Type Triax Connector Repair	144 00
4811-XXXX, 4806-XXXX, 4816-XXXX, 4841-XXXX and 4846-XXXX (MIL-C-39012)	
BNC Type Triax Connector Repair	144 00
4816-XXXX, 4806-XXXX, 4811-XXXX, 4841-XXXX and 4846-XXXX (MIL-C-39012)	
BNC Type Triax Connector Repair	144 00
4841-XXXX, 4806-XXXX, 4811-XXXX, 4816-XXXX, and 4846-XXXX (MIL-C-39012)	
BNC Type Triax Connector Repair	144 00
4846-XXXX, 4806-XXXX, 4811-XXXX, 4816-XXXX, and 4841-XXXX (MIL-C-39012)	
BNC Type Triax Connector Repair	144 00
5M30-XX-XXXX 165-XX-XXXX Connector Repair	196 00
5801-XXXX, 31-33449-XX, 31-34179-XX, 5811-XXXX and 5813-XXXX (MIL-C-39012)	
Twinax Connector Repair	140 00
5811-XXXX, 31-33449-XX, 31-34179-XX, 5801-XXXX and 5813-XXXX (MIL-C-39012)	
Twinax Connector Repair	140 00
5813-XXXX, 31-33449-XX, 31-34179-XX, 5801-XXXX and 5811-XXXX (MIL-C-39012)	
Twinax Connector Repair	140 00
5841-XXXX and 31-33819-13 (MIL-C-39012) Twinax Connector Repair	141 00
82-3223-(), 31-3228-(), 31-3229-(), 31-4229-(), 82-5627-() and 82-5676-1 (MIL-C-39012)	
Coax Connector Repair	101 00
82-5627-(), 31-3228-(), 31-3229-(), 31-4229-(), 82-3223-() and 82-5676-1 (MIL-C-39012)	
Coax Connector Repair	101 00
82-5676-1, 31-3228-(), 31-3229-(), 31-4229-(), 82-3223-() and 82-5627-() (MIL-C-39012)	
Coax Connector Repair	101 00
82-5770, 82-5772-X, 82-5773-X, 82-5967-X, and 82-5992 (MIL-C-49142)	124 00
88-4887XX, KJL6J9, KJL6T9 and MS27467 (MIL-C-38999 Series 1) Connector Repair	169 00

Title	WP Number
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885-200-003 Connector Repair	187 00
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Fabrication of Shielded Wire Harness Terminated with Electromagnetic Interference (EMI) Backshells	033 00
Prewired Components	042 00
Repair of Multi-Conductor Shielded Cable	030 00
Repair of Shielded/Non-Shielded Braided Wiring Harness	032 00
Repair of Single Conductor Non-Shielded Wire	026 00
Repair of Single Conductor Shielded Cable	028 00
Sealing of Electrical Cable Assemblies	022 00
Sealing of Electrical Components	024 00
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ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****CABLE/WIRING ASSEMBLY DATA INDEX**

CABLE/WIRING ASSEMBLY DATA INDEX

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A750002	COCKPIT CABLE ASSEMBLY	-010	500 02
74A750102	COCKPIT CABLE ASSEMBLY	-010	501 02
74A750201	COCKPIT CABLE ASSEMBLY	-010	502 01
74A750202	COCKPIT CABLE ASSEMBLY	-010	502 02
74A750203	COCKPIT CABLE ASSEMBLY	-010	502 03
74A750206	COCKPIT CABLE ASSEMBLY	-010	502 06
74A750207	COCKPIT CABLE ASSEMBLY	-010	502 07
74A750208	COCKPIT CABLE ASSEMBLY	-010	502 08
74A750210	COCKPIT CABLE ASSEMBLY	-010	502 10
74A750211	COCKPIT CABLE ASSEMBLY	-010	502 11
74A750212	COCKPIT CABLE ASSEMBLY	-010	502 12
74A750213	COCKPIT CABLE ASSEMBLY	-010	502 13
74A750214	COCKPIT CABLE ASSEMBLY	-010	502 14
74A750216	COCKPIT CABLE ASSEMBLY	-010	502 16
74A750218	COCKPIT CABLE ASSEMBLY	-010	502 18
74A750224	COCKPIT CABLE ASSEMBLY	-010	502 24
74A750301	COCKPIT CABLE ASSEMBLY	-010	503 01
74A750302	COCKPIT CABLE ASSEMBLY	-010	503 02
74A750303	COCKPIT CABLE ASSEMBLY	-010	503 03
74A750305	COCKPIT CABLE ASSEMBLY	-010	503 05
74A750307	COCKPIT CABLE ASSEMBLY	-010	503 07
74A750308	COCKPIT CABLE ASSEMBLY	-010	503 08
74A750310	COCKPIT CABLE ASSEMBLY	-010	503 10

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ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A750311	COCKPIT CABLE ASSEMBLY	-010	503 11
74A750314	COCKPIT CABLE ASSEMBLY	-010	503 14
74A750316	COCKPIT CABLE ASSEMBLY	-010	503 16
74A750318	COCKPIT CABLE ASSEMBLY	-010	503 18
74A750320	COCKPIT CABLE ASSEMBLY	-010	503 20
74A750321	COCKPIT CABLE ASSEMBLY	-010	503 21
74A750322	COCKPIT CABLE ASSEMBLY	-010	503 22
74A750323	COCKPIT CABLE ASSEMBLY	-010	503 23
74A752001	NOSE CABLE ASSEMBLY	-020	520 01
74A752002	NOSE CABLE ASSEMBLY	-020	520 02
74A752003	NOSE CABLE ASSEMBLY	-020	520 03
74A752004	NOSE CABLE ASSEMBLY	-020	520 04
74A752005	NOSE CABLE ASSEMBLY	-020	520 05
74A752006	NOSE CABLE ASSEMBLY	-020	520 06
74A752007	NOSE CABLE ASSEMBLY	-020	520 07
74A752008	NOSE CABLE ASSEMBLY	-020	520 08
74A752105	NOSE CABLE ASSEMBLY	-020	521 05
74A752203	NOSE CABLE ASSEMBLY	-020	522 03
74A752204	NOSE CABLE ASSEMBLY	-020	522 04
74A752205	NOSE CABLE ASSEMBLY	-020	522 05
74A752212	NOSE CABLE ASSEMBLY	-020	522 12
74A753002	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 02
74A753003	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 03
74A753004	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 04
74A753005	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 05
74A753006	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 06
74A753007	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 07
74A753008	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 08
74A753009	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 09
74A753012	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 12
74A753014	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 14
74A753015	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 15
74A753019	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 19
74A753020	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 20

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A753021	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 21
74A753022	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 22
74A753024	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 24
74A753027	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 27
74A753028	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 28
74A753029	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 29
74A753031	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 31
74A753032	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 32
74A753033	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 33
74A753034	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 34
74A753035	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 35
74A753036	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 36
74A753037	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 37
74A753038	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 38
74A753039	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 39
74A753040	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 40
74A753042	FORWARD FUSELAGE CABLE ASSEMBLY	-020	530 42
74A753103	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 03
74A753114	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 14
74A753119	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 19
74A753120	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 20
74A753122	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 22
74A753127	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 27
74A753133	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 33

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A753134	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 34
74A753137	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 37
74A753138	FORWARD FUSELAGE CABLE ASSEMBLY	-020	531 38
74A753201	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 01
74A753202	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 02
74A753203	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 03
74A753204	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 04
74A753205	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 05
74A753206	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 06
74A753207	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 07
74A753208	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 08
74A753209	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 09
74A753210	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 10
74A753211	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 11
74A753212	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 12
74A753213	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 13
74A753214	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 14
74A753216	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 16
74A753217	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 17
74A753218	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 18
74A753219	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 19
74A753220	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 20
74A753221	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 21
74A753223	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 23

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE
74A753224	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 24
74A753225	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 25
74A753226	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 26
74A753227	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 27
74A753228	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 28
74A753229	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 29
74A753230	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 30
74A753231	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 31
74A753232	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 32
74A753233	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 33
74A753234	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 34
74A753235	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 35
74A753236	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 36
74A753237	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 37
74A753238	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 38
74A753243	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 43
74A753301	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 01
74A753302	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 02
74A753303	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 03
74A753304	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 04
74A753306	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 06
74A753311	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 11
74A753312	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 12
74A753314	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 14

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A753315	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 15
74A753316	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 16
74A753317	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 17
74A753318	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 18
74A753319	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 19
74A753320	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 20
74A753322	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 22
74A753324	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 24
74A753330	FORWARD FUSELAGE CABLE ASSEMBLY	-030	533 30
74A754001	LEFT WING CABLE ASSEMBLY	-040	540 01
74A754201	LEFT WING CABLE ASSEMBLY	-040	542 01
74A754202	LEFT WING CABLE ASSEMBLY	-040	542 02
74A754203	LEFT WING CABLE ASSEMBLY	-040	542 03
74A754204	LEFT WING CABLE ASSEMBLY	-040	542 04
74A754205	LEFT WING CABLE ASSEMBLY	-040	542 05
74A754206	LEFT WING CABLE ASSEMBLY	-040	542 06
74A754207	LEFT WING CABLE ASSEMBLY	-040	542 07
74A754208	LEFT WING CABLE ASSEMBLY	-040	542 08
74A754209	LEFT WING CABLE ASSEMBLY	-040	542 09
74A754210	LEFT WING CABLE ASSEMBLY	-040	542 10
74A754211	LEFT WING CABLE ASSEMBLY	-040	542 11
74A754212	LEFT WING CABLE ASSEMBLY	-040	542 12
74A754213	LEFT WING CABLE ASSEMBLY	-040	542 13
74A754214	LEFT WING CABLE ASSEMBLY	-040	542 14
74A754215	LEFT WING CABLE ASSEMBLY	-040	542 15
74A754216	LEFT WING CABLE ASSEMBLY	-040	542 16
74A755001	RIGHT WING CABLE ASSEMBLY	-040	550 01
74A755201	RIGHT WING CABLE ASSEMBLY	-040	552 01
74A755202	RIGHT WING CABLE ASSEMBLY	-040	552 02
74A755203	RIGHT WING CABLE ASSEMBLY	-040	552 03
74A755204	RIGHT WING CABLE ASSEMBLY	-040	552 04
74A755205	RIGHT WING CABLE ASSEMBLY	-040	552 05
74A755206	RIGHT WING CABLE ASSEMBLY	-040	552 06
74A755207	RIGHT WING CABLE ASSEMBLY	-040	552 07
74A755208	RIGHT WING CABLE ASSEMBLY	-040	552 08
74A755209	RIGHT WING CABLE ASSEMBLY	-040	552 09
74A755210	RIGHT WING CABLE ASSEMBLY	-040	552 10
74A755212	RIGHT WING CABLE ASSEMBLY	-040	552 12
74A755213	RIGHT WING CABLE ASSEMBLY	-040	552 13

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A755214	RIGHT WING CABLE ASSEMBLY	-040	552 14
74A755215	RIGHT WING CABLE ASSEMBLY	-040	552 15
74A756201	CABLE ASSEMBLY, LEFT MAIN GEAR	-040	562 01
74A756202	CABLE ASSEMBLY, RIGHT MAIN GEAR	-040	562 02
74A756203	CABLE ASSEMBLY, CENTER FUSELAGE	-040	562 03
74A756204	CABLE ASSEMBLY, CENTER FUSELAGE	-040	562 04
74A756205	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 05
74A756206	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 06
74A756207	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 07
74A756208	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 08
74A756209	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 09
74A756210	CABLE ASSEMBLY, ELECTRICAL EXTERNAL TANK	-040	562 10
74A756211	CABLE ASSEMBLY, ELECTRICAL EXTERNAL TANK	-040	562 11
74A756212	CABLE ASSEMBLY, ELECTRICAL EXTERNAL TANK	-040	562 12
74A756213	CABLE ASSEMBLY, ELECTRICAL PYLON	-040	562 13
74A756214	CABLE ASSEMBLY, PYLON	-040	562 14
74A756225	CABLE ASSEMBLY, WALLEYE, JUMPER	-040	562 25
74A756226	CABLE ASSEMBLY, VER-2, JUMPER	-040	562 26
74A756227	CABLE ASSEMBLY, LAU-117/A, JUMPER	-040	562 27
74A756228	CABLE ASSEMBLY, AERO-5C, JUMPER	-040	562 28
74A756229	CABLE ASSEMBLY, LAU-115/A, JUMPER	-040	562 29
74A756230	CABLE ASSEMBLY, EXTERNAL TANK, JUMPER	-040	562 30
74A756232	CABLE ASSEMBLY, VER-2, WING PYLON, JUMPER	-040	562 32
74A756233	CABLE ASSEMBLY, ALQ-126A, JUMPER	-040	562 33
74A756234	CABLE ASSEMBLY, MER-7, JUMPER	-040	562 34
74A756235	CABLE ASSEMBLY, ELEC LAU-115/A JUMPER	-040	562 35
74A756236	CABLE ASSEMBLY, ELEC- HARPOON JUMPER	-040	562 36

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A756245	CABLE ASSEMBLY, SHIRKE JUMPER	-040	562 45
74A756247	CABLE ASSEMBLY, GENERIC WEAPON WING PYLON JUMPER	-040	562 47
74A760001	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 01
74A760011	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 11
74A760012	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 12
74A760013	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 13
74A760014	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 14
74A760015	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 15
74A760016	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 16
74A760017	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 17
74A760018	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 18
74A760019	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 19
74A760020	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 20
74A760021	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 21
74A760022	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 22
74A760025	CENTER FUSELAGE CABLE ASSEMBLY	-050	600 25
74A760111	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 11
74A760112	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 12
74A760113	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 13
74A760116	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 16
74A760117	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 17
74A760118	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 18
74A760119	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 19
74A760120	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 20
74A760201	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 01

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A760202	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 02
74A760203	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 03
74A760204	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 04
74A760205	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 05
74A760206	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 06
74A760207	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 07
74A760208	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 08
74A760209	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 09
74A760210	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 10
74A760211	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 11
74A760212	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 12
74A760213	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 13
74A760214	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 14
74A760217	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 17
74A760218	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 18
74A760219	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 19
74A760220	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 20
74A760221	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 21
74A760222	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 22
74A760223	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 23
74A760224	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 24
74A760225	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 25
74A760226	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 26
74A760230	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 30

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A760231	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 31
74A760232	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 32
74A760233	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 33
74A760234	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 34
74A760235	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 35
74A760236	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 36
74A760237	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 37
74A760238	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 38
74A760239	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 39
74A760240	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 40
74A760241	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 41
74A760242	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 42
74A760243	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 43
74A760246	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 46
74A760248	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 48
74A760249	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 49
74A760250	CENTER FUSELAGE CABLE ASSEMBLY	-060	602 50
74A760301	CENTER FUSELAGE CABLE ASSEMBLY	-060	603 01
74A760303	CENTER FUSELAGE CABLE ASSEMBLY	-060	603 03
74A760325	CENTER FUSELAGE CABLE ASSEMBLY	-060	603 25
74A760326	CENTER FUSELAGE CABLE ASSEMBLY	-060	603 26
74A760330	CENTER FUSELAGE CABLE ASSEMBLY	-060	603 30
74A761202	AFT FUSELAGE CABLE ASSEMBLY	-060	612 02
74A761204	AFT FUSELAGE CABLE ASSEMBLY	-060	612 04
74A761205	AFT FUSELAGE CABLE ASSEMBLY	-060	612 05
74A761206	AFT FUSELAGE CABLE ASSEMBLY	-060	612 06

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A761209	AFT FUSELAGE CABLE ASSEMBLY	-060	612 09
74A761210	AFT FUSELAGE CABLE ASSEMBLY	-060	612 10
74A761211	AFT FUSELAGE CABLE ASSEMBLY	-060	612 11
74A761213	AFT FUSELAGE CABLE ASSEMBLY	-060	612 13
74A761214	AFT FUSELAGE CABLE ASSEMBLY	-060	612 14
74A761219	AFT FUSELAGE CABLE ASSEMBLY	-060	612 19
74A761220	AFT FUSELAGE CABLE ASSEMBLY	-060	612 20
74A761221	AFT FUSELAGE CABLE ASSEMBLY	-060	612 21
74A761222	AFT FUSELAGE CABLE ASSEMBLY	-060	612 22
74A770002	No. 2 CIRCUIT BREAKER PANEL ASSEMBLY (52A-D026)	-070	700 02
74A770004	No. 4 CIRCUIT BREAKER PANEL ASSEMBLY (52A-D026)	-070	700 04
74A770005	No. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY (52A-C057)	-070	700 05
74A770006	No. 2 RELAY PANEL ASSEMBLY (52A-F058)	-070	700 06
74A770007	No. 3 RELAY PANEL ASSEMBLY (52A-E059)	-070	700 07
74A770009	RDR LCS SERVICE PANEL ASSEMBLY (22A-A090)	-070	700 09
74A770010	No. 5 CIRCUIT BREAKER PANEL ASSEMBLY (52A-D092)	-070	700 10
74A770011	MASTER ARM CONTROL PANEL ASSEMBLY (52A-H075)	-070	700 11
74A770012	MAP GAIN CONTROL PANEL ASSEMBLY (52A-J076)	-070	700 12
74A770013	LH VERTICAL CONSOLE CONTROL PANEL (52A-H077)	-070	700 13
74A770014	ELECTRICAL POWER CONTROL PANEL ASSEMBLY (1A-J084)	-070	700 14
74A770015	GND PWR CONTROL PANEL ASSEMBLY (1A-H004)	-070	700 15
74A770016	ECS PANEL ASSEMBLY (52A-J078)	-070	700 16
74A770017	MUX BUS IMPEDENCE MATCHING NETWORK (83A-Y013)	-070	700 17
74A770018	INTERIOR LIGHTS CONTROL BOX PANEL ASSEMBLY (8A-J002)	-070	700 18
74A770019	EXTERIOR LIGHTS CONTROL PANEL ASSEMBLY (52A-H091)	-070	700 19
74A770020	SNSR POD CONTROL BOX PANEL ASSEMBLY (52A-J080)	-070	700 20
74A770021	APU CONTROL PANEL (52A-H079)	-070	700 21
74A770022	COMM CONT PANEL (76A-B023)	-070	700 22
74A770023	ANTENNA SELECT CONTROL PANEL ASSEMBLY (52A-H089)	-070	700 23
74A770024	CANOPY ACTUATOR SWITCH PANEL ASSEMBLY (20A-J003)	-070	700 24

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A770025	MC/HYD ISOL CONTROL PANEL ASSEMBLY (52A-H081)	-070	700 25
74A770026	ELECTRICAL BORESIGHT COMPENSATION ASSEMBLY (85A-F007)	-070	700 26
74A770027	PILOT SERVICES CONTROL PANEL ASSEMBLY (52A-H083)	-070	700 27
74A770029	ECM CONTROL PANEL ASSEMBLY (52A-H087)	-070	700 29
74A770030	LIGHT SUPPORT AND MAD COMPENSATOR PANEL ASSEMBLY (52A-J155)	-070	700 30
74A770031	THROTTLE QUADRANT (52A-H088)	-070	700 31
74A770032	FAN TEST CONTROL PANEL ASSEMBLY (52A-J053)	-070	700 32
74A770033	FUEL SYSTEM CONTROL PANEL (5A-H027)	-070	700 33
74A770035	LOWER LH INSTRUMENT PANEL ASSEMBLY (52A-H098)	-070	700 35
74A770036	FUEL CHECK PANEL (5A-B019)	-070	700 36
74A770042	No. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY (52A-C159)	-070	700 42
74A770044	D.C. POWER ZENER (1CRD124)	-070	700 44
74A770046	CONTROL STICK GRIP ADAPTER ASSEMBLY (53A-Y312)	-070	700 46
74A770047	ARRESTING HOOK SWITCHING MECHANISM (19MPS507)	-070	700 47
74A770048	LATERAL STICK POSITION SENSOR ASSEMBLY (84A-J122)	-070	700 48
74A770050	No. 9 RELAY PANEL ASSEMBLY (52A-C161)	-070	700 50
74A770055	VIDEO RELAY PANEL ASSEMBLY (79A-L023)	-070	700 55
74A770057	BATTERY CHARGING PANEL ASSEMBLY (1A-A138)	-070	700 57
74A770058	AMAC CONTROL PANEL (61A-J532)	-070	700 58
74A770101	ARRESTING HOOK UP SWITCH (19SS006)	-070	701 01
74A770102	ARRESTING HOOK DOWN PROXIMITY SWITCH	-070	701 02
74A770103	INFLIGHT REFUELING FLOODLIGHT (5DSB008)	-070	701 03
74A770104	RIGHT WING TIP POSITION LIGHT (7DSV010)	-070	701 04
74A770105	LEFT WING TIP POSITION LIGHT (7DSU011)	-070	701 05
74A770106	LEFT FORWARD FUSELAGE FORMATION LIGHT (7DSA015)	-070	701 06

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A770107	RIGHT FORWARD FUSELAGE FORMATION LIGHT (7DSB017)	-070	701 07
74A770108	WING TIP FORMATION LIGHT (7DSU019)	-070	701 08
74A770109	WING TIP FORMATION LIGHT (7DSV021)	-070	701 09
74A770111	NLG UPLOCK SWITCH (12S-G051)	-070	701 11
74A770112	NLG DOWNLOCK SWITCH (12S-G046)	-070	701 12
74A770113	LAUNCH BAR RETRACT PROXIMITY SWITCH (12S-G049)	-070	701 13
74A770114	NLG WEIGHT ON WHEELS (WOW) SWITCH (12S-G057)	-070	701 14
74A770115	MLG DOWNLOCK SWITCH (12S-P048)	-070	701 15
74A770116	MLG WEIGHT ON WHEELS (WOW) SWITCH (12S-P059)	-070	701 16
74A770117	MLG DOWNLOCK SWITCH (12S-R047)	-070	701 17
74A770118	MLG WEIGHT ON WHEELS (WOW) SWITCH (12S-R058)	-070	701 18
74A770119	CANOPY POSITION SWITCH (20S-L008)	-070	701 19
74A770120	CANOPY LOCKED SWITCH (20S-L007)	-070	701 20
74A770121	BOARDING LADDER STOWED SWITCH	-070	701 21
74A770122	INFLIGHT REFUELING PROBE RETRACT LIMIT SWITCH (5S-B010)	-070	701 22
74A770123	WING LOCK WARNING SWITCH (17S-U013)	-070	701 23
74A770124	WING LOCK WARNING SWITCH (17S-V014)	-070	701 24
74A770125	WINGFOLD INHIBIT SWITCH (17S-U015)	-070	701 25
74A770126	WINGFOLD INHIBIT SWITCH (17S-V016)	-070	701 26
74A770127	FWD LEFT CONSOLE FLOODLIGHT (8DSH031)	-070	701 27
74A770128	FWD RIGHT CONSOLE FLOODLIGHT (8DSJ054)	-070	701 28
74A770129	REFUEL SCAVENGE LINE PRESSURE TRANSDUCER (5MTF140)	-070	701 29
74A770130	ENGINE INSTRUMENT FLOODLIGHT (8DSH158)	-070	701 30
74A770131	DRAG BRACE SUPPORT STRAIN GRACE PRIMARY (85M-F019)	-070	701 31
74A770132	LEFT WING ROOT STRAIN GAGE PRIMARY (85M-U020)	-070	701 32
74A770133	LEFT WING FOLD STRAIN GAGE (85M-U021)	-070	701 33

CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A770134	EMERGENCY INSTRUMENT FLOODLIGHT (8DSJ128)	-070	701 34
74A770135	GUN ELECTRICAL SIGNAL SAFETY SWITCH (61S-C163)	-070	701 35
74A770136	ARMAMENT OVERRIDE SWITCH (61S-G153)	-070	701 36
74A770137	CHART LIGHT (8DSH143)	-070	701 37
74A770138	CHART LIGHT (8DSH143)	-070	701 38
74A770139	LOCK/SHOOT LIGHT ASSEMBLY (8DSJ150)	-070	701 39
74A770140	LOCK/SHOOT LIGHT ASSEMBLY (8DSJ150)	-070	701 40
74A770141	AIRCRAFT GUIDED MISSILE LAUNCHER LAU-116/A, LEFT (661A-Y200A)	-070	701 41
74A770142	AIRCRAFT GUIDED MISSILE LAUNCHER LAU-116/A, RIGHT (61A-Y200B)	-070	701 42
74A770143	AIRCRAFT GUIDED MISSILE LAUNCHER LAU-116/A (61J-Y200A)	-070	701 43
74A770144	LAUNCHER LATCHING RELAY ASSEMBLY (61K-Y202)	-070	701 44
74A770147	AIRCRAFT GUIDED MISSILE LAUNCHER ASSEMBLY	-070	701 47
74A770150	LAU-116/A LAUNCHER CABLE ASSEMBLY (61SQY201A)	-070	701 50
74A770151	LAU-116/A LAUNCHER No. 1 CABLE ASSEMBLY	-070	701 51
74A770152	LEFT WING TIP FORMATION LIGHT (7DSU049)	-070	701 52
74A770153	RIGHT WING TIP FORMATION LIGHT (7DSV050)	-070	701 53
74A770155	PLANING LINK SWITCH (12S-P091)	-070	701 55
74A770156	PLANING LINK SWITCH (12S-R092)	-070	701 56
74A770157	LAU-115/A LAUNCHER ELECTRICAL WIRING ASSEMBLY (61K-W225)	-070	701 57
74A770158	STICK STOP SOLENOID (84L-C103)	-070	701 58
74A770159	FCS EMERGENCY RAM AIR SCOOP SOLENOID (22L-D096)	-070	701 59
74A770164	LAU-115/A LAUNCHER LOCKING DEVICE SOLENOID (61L-W241)	-070	701 64
74A770165	FUEL QUANTITY TEST PLUG ASSEMBLY (5P-G024)	-070	701 65
74A770166	RADIO FREQUENCY FILTER (7FLU053)	-070	701 66
74A770167	RADIO FREQUENCY FILTER (7FLV054)	-070	701 67

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ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A770168	RADIO FREQUENCY FILTER (8FLH161)	-070	701 68
74A770169	ECM COOLING AIR CONTROL VALVE (22L-E098)	-070	701 69
74A770170	RIGHT FORWARD RADIO FREQUENCY TRANSMISSION SWITCH	-070	701 70
74A770171	LEFT FORWARD RADIO FREQUENCY	-070	701 71
74A770172	E/U BATTERY VOLTMETER FLOODLIGHT (8DSJ165)	-070	701 72
74A770173	No. 1 FUEL TANK (5A-E035)	-070	701 73
74A770174	No. 1 FUEL TANK TRANSFER CONTROL VALVE (5L-F160)	-070	701 74
74A770175	No. 1 FUEL TANK FUEL LOW LEVEL SHUTOFF VALVE (5L-E171)	-070	701 75
74A770176	No. 1 FUEL TANK PRESSURE OPERATED INTERCONNECT VALVE (5S-E172)	-070	701 76
74A770181	CABLE ASSEMBLY FOR LEFT LAU-116A LAUNCHER	-070	701 81
74A770182	CABLE ASSEMBLY FOR RIGHT LAU-116A LAUNCHER	-070	701 82
74A770183	WIRING ASSEMBLY FOR LAU-115/A LAUNCHER COCKPIT CONFIGURATION	-070	701 83
74A770185	WIRING ASSEMBLY FOR LAU-116A LAUNCHER LATCHING RELAY COCKPIT CONFIGURATION	-070	701 85
74A770186	WIRING ASSEMBLY FOR LAU-116A LAUNCHER BREECH/MOT F CABLE ASSEMBLY	-070	701 86
74A770200	PREWIRED COMPONENTS PANEL ASSEMBLY	-070	702 00
74A770201	No. 4 RELAY PANEL ASSEMBLY (52A-N118)	-070	702 01
74A770202	STROBE LIGHT FAULT INDICATOR (7A-S048)	-070	702 02
74A770300	EXTERNAL FUEL TANK ELECTRICAL DISCONNECT	-070	703 00
74A770301	EXTERNAL FUEL TANK FLOAT VALVE	-070	703 01
74A770302	EXTERNAL FUEL TANK SHUTOFF VALVE	-070	703 02
74A770303	EXTERNAL FUEL TANK QUANTITY PROBE SEAL ASSEMBLY	-070	703 03

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ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A770504	No. 4 CIRCUIT BREAKER PANEL ASSEMBLY (52A-D026)	-070	705 04
74A770505	No. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY (52A-C057)	-070	705 05
74A770506	No. 2 RELAY PANEL ASSEMBLY (52A-F058)	-070	705 06
74A770507	No. 3 RELAY PANEL ASSEMBLY (52A-E059)	-070	705 07
74A770511	MASTER ARM CONTROL PANEL ASSEMBLY (52A-H075)	-070	705 11
74A770523	ANT SEL CONTROL PANEL ASSEMBLY (52A-H089)	-070	705 23
74A770524	CANOPY ACTUATOR SWITCH ASSEMBLY (20A-J003)	-070	705 24
74A770542	No. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY (52A-C159)	-070	705 42
74A770543	EMERGENCY JETTISON PANEL ASSEMBLY (61A-K237)	-070	705 43
74A770550	VOLUME CONTROL PANEL ASSEMBLY (76A-K032)	-070	705 50
74A770551	REAR INT LT CONTROL BOX PANEL ASSEMBLY (8A-L098)	-070	705 51
74A770552	REAR PILOT SERVICE CONTROL PANEL ASSEMBLY (52A-K304)	-070	705 52
74A770553	FAN TEST CONTROL AND UTILITY LIGHT PANEL ASSEMBLY (52A-L309)	-070	705 53
74A770554	MASTER MODE SELECT PANEL ASSEMBLY (61A-L217)	-070	705 54
74A770555	VIDEO RELAY PANEL ASSEMBLY (79A-E023)	-070	705 55
74A770556	CONTROL DISPLAY SELECT PANEL (80A-K023)	-070	705 56
74A770620	CANOPY LOCKED SWITCH, ELECT (20S-E007)	-070	706 20
74A770675	FWD LEFT CONSOLE FLOODLIGHT (8DSK132)	-070	706 75
74A770678	FWD RIGHT CONSOLE FLOODLIGHT (8DSL131)	-070	706 78
74A799110	SPECIAL PURPOSE, ELECTRICAL CABLE ASSEMBLY	-070	991 10
74R794331	RETROFIT CABLE ASSEMBLY	-070	943 31
74R794332	RETROFIT CABLE ASSEMBLY	-070	943 32
74R794333	RETROFIT CABLE ASSEMBLY	-070	943 33
74R794334	RETROFIT CABLE ASSEMBLY	-070	943 34
74R794335	RETROFIT CABLE ASSEMBLY	-070	943 35
74R794336	RETROFIT CABLE ASSEMBLY	-070	943 36
74R794338	RETROFIT CABLE ASSEMBLY	-070	943 38

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ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74R794339	RETROFIT CABLE ASSEMBLY	-070	943 39
74R794340	RETROFIT CABLE ASSEMBLY	-070	943 40
74R794348	RETROFIT CABLE ASSEMBLY	-070	943 48
74R794349	RETROFIT CABLE ASSEMBLY	-070	943 49
74R794357	RETROFIT CABLE ASSEMBLY	-070	943 57
74R794358	RETROFIT CABLE ASSEMBLY	-070	943 58
74R794363	RETROFIT CABLE ASSEMBLY	-070	943 63
74R796365	RETROFIT CABLE ASSEMBLY	-070	943 65
74R794368	RETROFIT CABLE ASSEMBLY	-070	943 68
74R794369	RETROFIT CABLE ASSEMBLY	-070	943 69
74R794436	RETROFIT CABLE ASSEMBLY	-070	944 36
74R794537	CABLE ASSEMBLY	-070	945 37
74R794538	RETROFIT CABLE ASSEMBLY	-070	945 38
74R794539	RETROFIT CABLE ASSEMBLY	-070	945 39
74R794540	RETROFIT CABLE ASSEMBLY	-070	945 40
74R794541	RETROFIT CABLE ASSEMBLY	-070	945 41
74R794542	RETROFIT CABLE ASSEMBLY	-070	945 42
74R794543	RETROFIT CABLE ASSEMBLY	-070	945 43
74R794545	RETROFIT CABLE ASSEMBLY	-070	945 45
74R794546	RETROFIT CABLE ASSEMBLY	-070	945 46
74R798604	RETROFIT CABLE ASSEMBLY	-070	986 04
74R798605	RETROFIT CABLE ASSEMBLY	-070	986 05
74R798606	RETROFIT CABLE ASSEMBLY	-070	986 06
74R798607	RETROFIT CABLE ASSEMBLY	-070	986 07
74R798608	RETROFIT CABLE ASSEMBLY	-070	946 08
74R798609	RETROFIT CABLE ASSEMBLY	-070	946 09
74R798610	RETROFIT CABLE ASSEMBLY	-070	946 10
74R798612	RETROFIT CABLE ASSEMBLY	-070	946 12
74R798622	RETROFIT CABLE ASSEMBLY	-070	986 22
74R798623	RETROFIT CABLE ASSEMBLY	-070	986 23
74R798624	RETROFIT CABLE ASSEMBLY	-070	986 24

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ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74R798625	RETROFIT CABLE ASSEMBLY	-070	986 25
74R798626	RETROFIT CABLE ASSEMBLY	-070	986 26
74R799115	RETROFIT CABLE ASSEMBLY	-070	991 15
74R799120	RETROFIT CABLE ASSEMBLY	-070	991 20
74R799130	RETROFIT CABLE ASSEMBLY	-070	991 30

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GND1-A001	-020	532 11	A	74A753211
GND1-A001	-030	532 26	A/B	74A753226
GND1-A001	-030	533 11	B	74A753311
GND1-A005	-070	701 06	A/B	74A770106
GND1-A006	-020	532 11	A	74A753211
GND1-A006	-030	533 11	B	74A753311
GND1-A008	-020	522 03	A/B	74A752203
GND1-A009	-020	532 11	A	74A753211
GND1-A009	-030	533 11	B	74A753311
GND1-B002	-070	701 07	A/B	74A770107
GND1-C002	-020	532 11	A	74A753211
GND1-C002	-030	533 11	B	74A753311
GND1-C003	-020	532 11	A	74A753211
GND1-C003	-030	533 11	B	74A753311
GND1-C004	-020	532 05	A/B	74A753205
GND1-C004	-020	532 11	A	74A753211
GND1-C004	-030	533 11	B	74A753311
GND1-C005	-030	532 26	A/B	74A753226
GND1-C006	-030	532 26	A/B	74A753226
GND1-E002	-020	532 19	A	74A753219
GND1-E002	-030	533 19	B	74A753319
GND1-E004	-020	532 16	A	74A753216
GND1-E004	-020	532 19	A	74A753219
GND1-E004	-030	533 16	B	74A753316
GND1-E004	-030	533 19	B	74A753319
GND1-E005	-020	532 17	A	74A753217
GND1-E005	-030	533 17	B	74A753317
GND1-E006	-020	532 19	A	74A753219
GND1-E006	-030	533 19	B	74A753319
GND1-E007	-020	532 19	A	74A753219
GND1-E007	-030	533 19	B	74A753319
GND1-E008	-020	532 17	A	74A753217
GND1-E008	-030	533 17	B	74A753317
GND1-E102	-030	533 19	B	74A753319
GND1-F002	-020	532 18	A	74A753218
GND1-F002	-030	533 18	B	74A753318
GND1-F002	-030	533 22	B	74A753322
GND1-F003	-020	532 16	A	74A753216
GND1-F003	-030	532 30	A	74A753230
GND1-F003	-030	533 16	B	74A753316
GND1-F003	-030	533 30	B	74A753330
GND1-F004	-060	602 25	A	74A760225
GND1-F005	-020	532 14	A	74A753214
GND1-F005	-030	533 14	B	74A753314
GND1-H005	-010	502 01	A	74A750201
GND1-H005	-010	503 01	B	74A750301
GND1-H006	-010	502 03	A	74A750203
GND1-H006	-010	503 03	B	74A750303
GND1-J004	-010	502 02	A	74A750202
GND1-J004	-010	503 02	B	74A750302
GND1-K101	-010	503 05	B	74A750305
GND1-K102	-010	503 05	B	74A750305
GND1-K102	-070	943 28	B	74R794328
GND1-L001	-010	502 01	A	74A750201
GND1-L101	-010	503 01	B	74A750301
GND1-M001	-060	602 26	A	74A760226
GND1-M001	-060	603 26	B	74A760326
GND1-M002	-040	542 11	A/B	74A754211

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GND1-M003	-040	542 16	A/B	74A754216
GND1-N001	-040	552 13	A/B	74A755213
GND1-P001	-060	602 22	A/B	74A760222
GND1-P002	-050	602 05	A/B	74A760205
GND1-P003	-050	602 05	A/B	74A760205
GND1-S001	-060	602 26	A	74A760226
GND1-S001	-060	603 26	B	74A760326
GND1-S002	-070	702 00	A/B	74A770200
GND1-S003	-070	702 00	A/B	74A770200
GND1-T001	-070	702 00	A/B	74A770200
GND1-T002	-060	602 25	A	74A760225
GND1-T002	-060	603 25	B	74A760325
GND1-T003	-070	702 00	A/B	74A770200
GND1-U001	-040	542 01	A/B	74A754201
GND1-U002	-040	542 15	A/B	74A754215
GND1-U003	-070	701 08	A/B	74A770108
GND1-U003	-070	701 52	A/B	74A770152
GND1-U004	-040	542 04	A/B	74A754204
GND1-V001	-070	701 09	A/B	74A770109
GND1-V001	-070	701 53	A/B	74A770153
GND1-V002	-040	552 15	A/B	74A755215
GND1U001	-020	532 11	A	74A753211
GND10B003	-020	532 16	A	74A753216
GND10B003	-030	533 16	B	74A753316
GND10C005	-020	532 11	A	74A753211
GND10C005	-030	533 11	B	74A753311
GND10C006	-020	532 11	A	74A753211
GND10C006	-020	532 17	A	74A753217
GND10C006	-030	533 11	B	74A753311
GND10C006	-030	533 17	B	74A753317
GND10C007	-020	532 01	A	74A753201
GND10C007	-020	532 04	A	74A753204
GND10C007	-030	533 01	B	74A753301
GND10C007	-030	533 04	B	74A753304
GND10C007	-070	943 31	A/B	74R794331
GND10E001	-020	532 04	A	74A753204
GND10E001	-020	532 17	A	74A753217
GND10E001	-030	533 04	B	74A753304
GND10E001	-030	533 17	B	74A753317
GND10E005	-020	532 16	A	74A753216
GND10E005	-020	532 19	A	74A753219
GND10E005	-030	533 19	B	74A753319
GND10E006	-020	532 17	A	74A753217
GND10E006	-030	533 17	B	74A753317
GND10F001	-020	532 12	A	74A753212
GND10F001	-030	533 12	B	74A753312
GND10F004	-020	532 03	A	74A753203
GND10F004	-020	532 14	A	74A753214
GND10F004	-020	532 16	A	74A753216
GND10F005	-020	532 01	A	74A753201
GND10F005	-020	532 18	A	74A753218
GND10F005	-030	533 18	B	74A753318
GND10F005	-030	533 22	B	74A753322
GND10F007	-020	532 02	A	74A753202
GND10F007	-030	533 02	B	74A753302
GND10F009	-020	532 16	A	74A753216
GND10F009	-030	533 16	B	74A753316
GND10H002	-010	502 01	A	74A750201

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GND10H002	-010	502 07	A	74A750207
GND10H002	-010	503 01	B	74A750301
GND10H002	-010	503 07	B	74A750307
GND10H003	-010	502 01	A	74A750201
GND10H003	-010	502 07	A	74A750207
GND10H003	-010	503 01	B	74A750301
GND10H003	-010	503 07	B	74A750307
GND10H007	-010	502 03	A	74A750203
GND10H007	-010	503 03	B	74A750303
GND10H011	-010	502 01	A	74A750201
GND10H011	-010	503 01	B	74A750301
GND10H013	-010	502 01	A	74A750201
GND10H013	-010	502 03	A	74A750203
GND10H013	-010	503 01	B	74A750301
GND10H013	-010	503 03	B	74A750303
GND10H014	-010	502 01	A	74A750201
GND10H014	-010	502 07	A	74A750207
GND10H014	-010	503 01	B	74A750301
GND10H014	-010	503 07	B	74A750307
GND10J002	-010	502 02	A	74A750202
GND10J002	-010	503 02	B	74A750302
GND10J003	-010	502 02	A	74A750202
GND10J003	-010	502 08	A	74A750208
GND10J003	-010	503 02	B	74A750302
GND10J003	-010	503 08	B	74A750308
GND10J008	-010	502 02	A	74A750202
GND10J008	-010	502 08	A	74A750208
GND10J008	-010	503 02	B	74A750302
GND10J008	-010	503 08	B	74A750308
GND10J009	-010	502 02	A	74A750202
GND10J009	-010	503 02	B	74A750302
GND10J010	-010	502 07	A	74A750207
GND10J010	-010	502 08	A	74A750208
GND10J010	-010	503 07	B	74A750307
GND10J010	-010	503 08	B	74A750308
GND10J010	-070	943 32	A	74R794332
GND10J010	-070	943 33	B	74R794333
GND10K105	-010	503 07	B	74A750307
GND10K106	-010	503 01	B	74A750301
GND10K107	-010	503 01	B	74A750301
GND10L001	-010	502 02	A	74A750202
GND10L005	-010	503 02	B	74A750302
GND10L006	-010	503 02	B	74A750302
GND10L106	-010	503 02	B	74A750302
GND10L106	-010	503 08	B	74A750308
GND10M001	-050	602 01	A	74A760201
GND10M001	-060	603 01	B	74A760301
GND10M002	-060	602 26	A	74A760226
GND10M002	-060	603 26	B	74A760326
GND10M004	-050	602 05	A/B	74A760205
GND10M004	-060	602 26	A	74A760226
GND10M004	-060	603 26	B	74A760326
GND10M005	-050	602 05	A/B	74A760205
GND10M005	-060	602 26	A	74A760226
GND10M005	-060	603 26	B	74A760326
GND10N001	-050	602 02	A/B	74A760202
GND10N001	-060	602 25	A	74A760225
GND10N001	-060	603 25	B	74A760325

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GND10N002	-060	602 25	A	74A760225
GND10N002	-060	603 25	B	74A760325
GND10N003	-060	602 25	A	74A760225
GND10N003	-060	603 25	B	74A760325
GND10P001	-050	602 02	A/B	74A760202
GND10P001	-050	602 04	A/B	74A760204
GND10P001	-050	602 05	A/B	74A760205
GND10P001	-050	602 07	A/B	74A760207
GND10P001	-060	602 35	A/B	74A760235
GND10P002	-060	602 20	A/B	74A760220
GND10P002	-060	602 32	A/B	74A760232
GND10P004	-060	602 20	A/B	74A760220
GND10P005	-060	602 36	A/B	74A760236
GND10P005	-060	602 37	A/B	74A760237
GND10P006	-050	602 05	A/B	74A760205
GND10P007	-060	602 32	A/B	74A760232
GND10P008	-060	603 01	B	74A760301
GND10P009	-060	603 26	B	74A760326
GND10P011	-050	602 07	A/B	74A760207
GND10P012	-050	602 05	A/B	74A760205
GND10P013	-060	602 25	A	74A760225
GND10P013	-060	603 25	B	74A760325
GND10R001	-050	602 02	A/B	74A760202
GND10R001	-050	602 04	A/B	74A760204
GND10R002	-060	602 38	A/B	74A760238
GND10R002	-060	602 39	A/B	74A760239
GND10R003	-050	602 14	A/B	74A760214
GND10R004	-050	602 14	A/B	74A760214
GND10R005	-050	602 07	A/B	74A760207
GND10R006	-050	602 07	A/B	74A760207
GND10R008	-060	602 25	A	74A760225
GND10R008	-060	603 25	B	74A760325
GND10R010	-060	603 03	B	74A760303
GND10R011	-060	603 25	B	74A760325
GND10R012	-060	603 25	B	74A760325
GND10R013	-060	603 25	B	74A760325
GND10R015	-050	602 07	A/B	74A760207
GND10R016	-050	602 07	A/B	74A760207
GND10S001	-070	701 02	A/B	74A770102
GND10S002	-050	602 01	A	74A760201
GND10S002	-060	602 26	A	74A760226
GND10S002	-060	603 01	B	74A760301
GND10S002	-060	603 26	B	74A760326
GND10S002	-060	612 04	A/B	74A761204
GND10S002	-060	612 06	A/B	74A761206
GND10S003	-060	602 26	A	74A760226
GND10S003	-060	603 26	B	74A760326
GND10S004	-060	602 25	A	74A760225
GND10S004	-060	603 25	B	74A760325
GND10S011	-060	602 26	A	74A760226
GND10S011	-060	603 26	B	74A760326
GND10T001	-060	602 25	A	74A760225
GND10T001	-060	603 25	B	74A760325
GND10T002	-060	602 25	A	74A760225
GND10T002	-060	603 25	B	74A760325
GND10T003	-050	602 03	A	74A760203
GND10T003	-060	603 03	B	74A760303
GND10T003	-060	612 02	A/B	74A761202

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GND10T003	-060	612 05	A/B	74A761205
GND10T003	-060	612 11	A/B	74A761211
GND10T004	-060	602 25	A	74A760225
GND10T004	-060	603 25	B	74A760325
GND10T005	-060	602 25	A	74A760225
GND10T005	-060	603 25	B	74A760325
GND10T007	-060	602 25	A	74A760225
GND10T007	-060	603 25	B	74A760325
GND10U001	-040	542 01	A/B	74A754201
GND10U001	-040	542 04	A/B	74A754204
GND10U002	-040	542 06	A/B	74A754206
GND10U003	-040	542 10	A/B	74A754210
GND10U004	-040	542 02	A/B	74A754202
GND10U006	-040	542 12	A/B	74A754212
GND10U007	-040	542 09	A/B	74A754209
GND10V001	-040	552 01	A/B	74A755201
GND10V001	-040	552 04	A/B	74A755204
GND10V002	-040	552 06	A/B	74A755206
GND10V003	-040	552 10	A/B	74A755210
GND10V004	-040	552 12	A/B	74A755212
GND11C001	-070	700 05	A	74A770005
GND11C001	-070	705 05	B	74A770505
GND11C002	-070	700 42	A	74A770042
GND11C002	-070	705 42	B	74A770542
GND11C003	-070	700 50	A/B	74A770050
GND11E001	-070	700 07	A	74A770007
GND11E001	-070	705 07	B	74A770507
GND11E002	-070	705 55	B	74A770555
GND11F001	-070	700 06	A	74A770006
GND11F001	-070	705 06	B	74A770506
GND11H001	-070	700 29	A/B	74A770029
GND11H002	-070	700 33	A/B	74A770033
GND11L001	-070	700 55	A	74A770055
GND11N001	-070	702 01	A/B	74A770201
GND11W001	-070	701 47	A/B	68A770147
GND11W001	-070	701 83	A/B	68A770183
GND12-C002	-070	705 42	B	74A770542
GND12A001	-070	700 09	A/B	74A770009
GND12A003	-070	700 57	A/B	74A770057
GND12B001	-070	700 36	A/B	74A770036
GND12B002	-070	700 22	A/B	74A770022
GND12C001	-070	700 42	A	74A770042
GND12C001	-070	705 42	B	74A770542
GND12C002	-070	700 42	A	74A770042
GND12C002	-070	705 42	B	74A770542
GND12C003	-070	700 05	A	74A770005
GND12C003	-070	705 05	B	74A770505
GND12C004	-070	700 05	A	74A770005
GND12C004	-070	705 05	B	74A770505
GND12C005	-070	700 05	A	74A770005
GND12C005	-070	705 05	B	74A770505
GND12C006	-070	700 05	A	74A770005
GND12C006	-070	705 05	B	74A770505
GND12C007	-070	700 05	A	74A770005
GND12C007	-070	705 05	B	74A770505
GND12C008	-070	705 05	B	74A770505
GND12C009	-070	700 50	A/B	74A770050
GND12D001	-070	700 02	A/B	74A770002

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND12D002	-070	700 10	A/B	74A770010
GND12E001	-070	700 07	A	74A770007
GND12E001	-070	705 07	B	74A770507
GND12E002	-070	705 55	B	74A770555
GND12F002	-070	700 06	A	74A770006
GND12F002	-070	705 06	B	74A770506
GND12F003	-070	700 06	A	74A770006
GND12F003	-070	705 06	B	74A770506
GND12F004	-070	700 06	A	74A770006
GND12F004	-070	705 06	B	74A770506
GND12F005	-070	700 06	A	74A770006
GND12F005	-070	705 06	B	74A770506
GND12F006	-070	700 06	A	74A770006
GND12F006	-070	705 06	B	74A770506
GND12F007	-070	700 06	A	74A770006
GND12F007	-070	705 06	B	74A770506
GND12F009	-070	700 26	A/B	74A770026
GND12F010	-070	700 06	A	74A770006
GND12F010	-070	705 06	B	74A770506
GND12H001	-070	700 15	A/B	74A770015
GND12H003	-070	700 11	A	74A770011
GND12H003	-070	705 11	B	74A770511
GND12J001	-070	700 20	A/B	74A770020
GND12J002	-070	700 30	A/B	74A770030
GND12J003	-070	700 32	A/B	74A770032
GND12J004	-070	700 48	A/B	74A770048
GND12J005	-070	700 48	A/B	74A770048
GND12K001	-070	705 50	B	74A770550
GND12K002	-070	705 43	B	74A770543
GND12K003	-070	705 56	B	74A770556
GND12L002	-070	705 53	B	74A770553
GND12L003	-070	700 55	A	74A770055
GND12N001	-070	702 01	A/B	74A770201
GND12N002	-070	702 01	A/B	74A770201
GND12N003	-070	702 01	A/B	74A770201
GND12N004	-070	702 01	A/B	74A770201
GND12W001	-070	701 47	A/B	68A770147
GND12W001	-070	701 57	A/B	74A770157
GND12W001	-070	701 83	A/B	68A770183
GND12Y002	-070	700 17	A/B	74A770017
GND12Y003	-070	700 46	A/B	74A770046
GND12Y005	-040	562 13	A/B	74A756213
GND12Y005	-070	701 50	A/B/A/B	74A770150
GND12Y006	-070	701 44	A/B/A/B	74A770144
GND12Y006	-070	701 85	A/B	74A770185
GND2-A005	-020	532 11	A	74A753211
GND2-A005	-020	532 16	A	74A753216
GND2-A005	-030	533 11	B	74A753311
GND2-A005	-030	533 16	B	74A753316
GND2-A005	-070	943 35	A/B	74R794335
GND2-A009	-020	532 11	A	74A753211
GND2-A009	-030	533 11	B	74A753311
GND2-A010	-020	532 11	A	74A753211
GND2-A010	-030	532 38	A/B	74A753238
GND2-A010	-030	533 11	B	74A753311
GND2-A010	-070	943 38	A/B	74R794338
GND2-A011	-020	532 11	A	74A753211
GND2-A011	-030	533 11	B	74A753311

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND2-B001	-020	532 16	A	74A753216
GND2-B001	-030	533 16	B	74A753316
GND2-B005	-020	522 03	A/B	74A752203
GND2-B006	-020	532 16	A	74A753216
GND2-B006	-030	533 16	B	74A753316
GND2-B007	-020	532 16	A	74A753216
GND2-B007	-030	533 16	B	74A753316
GND2-C002	-020	532 11	A	74A753211
GND2-C002	-030	533 11	B	74A753311
GND2-C003	-020	532 17	A	74A753217
GND2-C003	-030	533 17	B	74A753317
GND2-C005	-020	532 11	A	74A753211
GND2-C005	-030	533 11	B	74A753311
GND2-C005	-070	701 36	A/B	74A770136
GND2-C005	-070	943 39	A/B	74R794339
GND2-C006	-020	532 05	A/B	74A753205
GND2-C006	-020	532 09	A/B	74A753209
GND2-C007	-020	532 11	A	74A753211
GND2-C007	-030	533 11	B	74A753311
GND2-C008	-020	532 09	A/B	74A753209
GND2-C009	-020	532 17	A	74A753217
GND2-C009	-030	533 17	B	74A753317
GND2-C010	-020	532 11	A	74A753211
GND2-C010	-030	533 11	B	74A753311
GND2-C010	-070	943 36	A/B	74R794336
GND2-D003	-020	532 12	A	74A753212
GND2-D003	-020	532 16	A	74A753216
GND2-D003	-020	532 18	A	74A753218
GND2-D003	-030	533 12	B	74A753312
GND2-D003	-030	533 16	B	74A753316
GND2-D003	-030	533 18	B	74A753318
GND2-D003	-070	943 40	A/B	74R794340
GND2-D005	-020	532 08	A/B	74A753208
GND2-D006	-020	532 10	A/B	74A753210
GND2-D006	-020	532 12	A	74A753212
GND2-D006	-030	533 12	B	74A753312
GND2-D008	-020	532 12	A	74A753212
GND2-D008	-020	532 18	A	74A753218
GND2-D008	-030	533 12	B	74A753312
GND2-D008	-030	533 18	B	74A753318
GND2-D009	-020	532 12	A	74A753212
GND2-D009	-030	533 12	B	74A753312
GND2-E002	-020	532 17	A	74A753217
GND2-E002	-030	533 17	B	74A753317
GND2-E003	-020	532 19	A	74A753219
GND2-E003	-030	533 19	B	74A753319
GND2-E004	-020	532 17	A	74A753217
GND2-E004	-030	533 17	B	74A753317
GND2-E004	-070	943 27	B	74R794327
GND2-E004	-070	943 30	B	74R794330
GND2-E005	-020	532 17	A	74A753217
GND2-E005	-030	533 17	B	74A753317
GND2-E006	-020	532 19	A	74A753219
GND2-E006	-030	533 19	B	74A753319
GND2-E007	-030	533 17	B	74A753317
GND2-F007	-020	532 18	A	74A753218
GND2-F007	-030	533 18	B	74A753318
GND2-F008	-020	532 02	A	74A753202

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND2-F008	-030	533 02	B	74A753302
GND2-F009	-020	532 16	A	74A753216
GND2-F009	-020	532 17	A	74A753217
GND2-F009	-030	533 17	B	74A753317
GND2-F010	-020	532 16	A	74A753216
GND2-F010	-030	533 16	B	74A753316
GND2-F013	-020	532 14	A	74A753214
GND2-F013	-030	533 14	B	74A753314
GND2-F015	-020	532 16	A	74A753216
GND2-F015	-030	533 16	B	74A753316
GND2-F016	-020	532 01	A	74A753201
GND2-F016	-020	532 14	A	74A753214
GND2-F016	-020	532 16	A	74A753216
GND2-F016	-030	533 01	B	74A753301
GND2-F016	-030	533 14	B	74A753314
GND2-F016	-030	533 16	B	74A753316
GND2-F017	-020	532 12	A	74A753212
GND2-F017	-020	532 18	A	74A753218
GND2-F017	-030	533 12	B	74A753312
GND2-F017	-030	533 18	B	74A753318
GND2-F018	-020	532 04	A	74A753204
GND2-F018	-030	533 04	B	74A753304
GND2-F020	-020	532 14	A	74A753214
GND2-F020	-030	533 14	B	74A753314
GND2-F021	-060	602 25	A	74A760225
GND2-F022	-020	532 03	A	74A753203
GND2-F022	-030	533 03	B	74A753303
GND2-H001	-010	502 01	A	74A750201
GND2-H001	-010	503 01	B	74A750301
GND2-H002	-010	502 01	A	74A750201
GND2-H002	-010	502 07	A	74A750207
GND2-H002	-010	503 01	B	74A750301
GND2-H002	-010	503 07	B	74A750307
GND2-H004	-010	502 01	A	74A750201
GND2-H004	-010	503 01	B	74A750301
GND2-H006	-010	502 01	A	74A750201
GND2-H006	-010	503 01	B	74A750301
GND2-H011	-010	502 01	A	74A750201
GND2-H011	-010	503 01	B	74A750301
GND2-H015	-010	502 01	A	74A750201
GND2-H015	-010	503 01	B	74A750301
GND2-J003	-010	502 02	A	74A750202
GND2-J003	-010	503 02	B	74A750302
GND2-J004	-010	502 02	A	74A750202
GND2-J004	-010	503 02	B	74A750302
GND2-J006	-010	502 02	A	74A750202
GND2-J006	-010	503 02	B	74A750302
GND2-J008	-010	502 02	A	74A750202
GND2-J008	-010	503 02	B	74A750302
GND2-J009	-010	502 10	A	74A750210
GND2-J009	-010	503 10	B	74A750310
GND2-J010	-010	502 01	A	74A750201
GND2-J010	-010	502 03	A	74A750203
GND2-J010	-010	503 01	B	74A750301
GND2-J010	-010	503 03	B	74A750303
GND2-K002	-010	502 01	A	74A750201
GND2-K002	-010	503 01	B	74A750301
GND2-K003	-010	502 14	A	74A750214

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND2-K102	-010	503 01	B	74A750301
GND2-L004	-010	502 01	A	74A750201
GND2-L004	-010	502 02	A	74A750202
GND2-L005	-010	502 14	A	74A750214
GND2-L005	-010	503 02	B	74A750302
GND2-L006	-010	502 02	A	74A750202
GND2-L006	-070	943 18	A	74R794318
GND2-L101	-010	503 01	B	74A750301
GND2-L101	-010	503 02	B	74A750302
GND2-L102	-010	503 02	B	74A750302
GND2-L103	-010	503 02	B	74A750302
GND2-L104	-010	503 02	B	74A750302
GND2-L105	-010	503 02	B	74A750302
GND2-M001	-060	602 26	A	74A760226
GND2-M001	-060	603 26	B	74A760326
GND2-M002	-050	602 05	A/B	74A760205
GND2-M002	-060	602 26	A	74A760226
GND2-M002	-060	603 26	B	74A760326
GND2-M003	-040	542 11	A/B	74A754211
GND2-M004	-040	542 13	A/B	74A754213
GND2-N001	-060	602 25	A	74A760225
GND2-N001	-060	603 25	B	74A760325
GND2-N002	-050	602 07	A/B	74A760207
GND2-N003	-050	602 07	A/B	74A760207
GND2-N003	-060	602 25	A	74A760225
GND2-N003	-060	603 25	B	74A760325
GND2-P001	-050	602 05	A/B	74A760205
GND2-P001	-050	602 07	A/B	74A760207
GND2-P001	-060	602 35	A/B	74A760235
GND2-P002	-050	602 05	A/B	74A760205
GND2-P003	-060	602 32	A/B	74A760232
GND2-P004	-060	602 26	A	74A760226
GND2-P004	-060	603 26	B	74A760326
GND2-P005	-060	602 26	A	74A760226
GND2-P005	-060	603 26	B	74A760326
GND2-P006	-050	602 05	A/B	74A760205
GND2-P007	-050	602 05	A/B	74A760205
GND2-P008	-050	602 07	A/B	74A760207
GND2-P009	-050	602 05	A/B	74A760205
GND2-P010	-050	602 05	A/B	74A760205
GND2-P011	-060	602 26	A	74A760226
GND2-P011	-060	603 26	B	74A760326
GND2-P012	-050	602 05	A/B	74A760205
GND2-P013	-050	602 05	A/B	74A760205
GND2-R001	-050	602 07	A/B	74A760207
GND2-R003	-060	602 34	A/B	74A760234
GND2-R004	-050	602 07	A/B	74A760207
GND2-R005	-050	602 07	A/B	74A760207
GND2-R006	-050	602 07	A/B	74A760207
GND2-R007	-050	602 07	A/B	74A760207
GND2-R008	-060	602 25	A	74A760225
GND2-R008	-060	603 25	B	74A760325
GND2-R010	-050	602 07	A/B	74A760207
GND2-R011	-050	602 07	A/B	74A760207
GND2-R012	-060	602 25	A	74A760225
GND2-R012	-060	603 25	B	74A760325
GND2-R013	-050	602 07	A/B	74A760207
GND2-R014	-050	602 07	A/B	74A760207

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND2-S001	-060	612 22	A/B	74A761222
GND2-S002	-060	602 25	A	74A760225
GND2-S002	-060	603 25	B	74A760325
GND2-S002	-070	701 01	A/B	74A770101
GND2-S003	-050	602 01	A	74A760201
GND2-S003	-060	603 01	B	74A760301
GND2-S003	-060	612 21	A/B	74A761221
GND2-S004	-060	602 26	A	74A760226
GND2-S004	-060	603 26	B	74A760326
GND2-S005	-060	602 26	A	74A760226
GND2-S005	-060	603 26	B	74A760326
GND2-S007	-060	602 25	A	74A760225
GND2-S007	-060	603 25	B	74A760325
GND2-S008	-070	702 00	A/B	74A770200
GND2-T001	-060	602 25	A	74A760225
GND2-T001	-060	603 25	B	74A760325
GND2-T002	-060	612 20	A/B	74A761220
GND2-T003	-060	602 25	A	74A760225
GND2-T003	-060	603 25	B	74A760325
GND2-T003	-060	612 14	A/B	74A761214
GND2-T004	-060	602 25	A	74A760225
GND2-T004	-060	603 25	B	74A760325
GND2-T005	-070	702 00	A/B	74A770200
GND2-U002	-040	542 01	A/B	74A754201
GND2-U004	-040	542 04	A/B	74A754204
GND2-U006	-040	542 09	A/B	74A754209
GND2-U008	-040	542 03	A/B	74A754203
GND2-V002	-040	552 01	A/B	74A755201
GND2-V003	-040	542 04	A	74A754204
GND2-V003	-040	552 04	A/B	74A755204
GND2-V004	-040	552 09	A/B	74A755209
GND2-V006	-040	552 03	A/B	74A755203
GND3-A001	-020	532 11	A	74A753211
GND3-A001	-030	533 11	B	74A753311
GND3-A002	-020	522 03	A/B	74A752203
GND3-A004	-020	532 16	A	74A753216
GND3-A004	-030	533 16	B	74A753316
GND3-A004	-070	943 35	A/B	74R794335
GND3-B004	-020	532 16	A	74A753216
GND3-B004	-030	533 16	B	74A753316
GND3-B005	-020	532 16	A	74A753216
GND3-B005	-030	533 16	B	74A753316
GND3-C002	-020	532 17	A	74A753217
GND3-C002	-030	533 17	B	74A753317
GND3-C004	-020	532 11	A	74A753211
GND3-C004	-030	533 11	B	74A753311
GND3-C006	-020	532 11	A	74A753211
GND3-C006	-020	532 19	A	74A753219
GND3-C006	-030	533 11	B	74A753311
GND3-C006	-030	533 19	B	74A753319
GND3-C007	-020	532 11	A	74A753211
GND3-C007	-030	533 11	B	74A753311
GND3-D003	-020	532 12	A	74A753212
GND3-D003	-020	532 16	A	74A753216
GND3-D003	-020	532 18	A	74A753218
GND3-D003	-030	533 12	B	74A753312
GND3-D003	-030	533 16	B	74A753316
GND3-D003	-030	533 18	B	74A753318

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND3-E001	-020	532 19	A	74A753219
GND3-E001	-030	533 19	B	74A753319
GND3-E002	-020	532 17	A	74A753217
GND3-E002	-030	533 17	B	74A753317
GND3-E101	-030	533 19	B	74A753319
GND3-F002	-020	532 16	A	74A753216
GND3-F002	-030	533 16	B	74A753316
GND3-F003	-020	532 18	A	74A753218
GND3-F003	-030	533 18	B	74A753318
GND3-F004	-020	532 16	A	74A753216
GND3-F004	-030	533 16	B	74A753316
GND3-F005	-020	532 16	A	74A753216
GND3-F005	-030	533 16	B	74A753316
GND3-F006	-020	532 02	A	74A753202
GND3-F006	-030	533 02	B	74A753302
GND3-F010	-020	532 04	A	74A753204
GND3-F010	-030	533 04	B	74A753304
GND3-F011	-060	602 25	A	74A760225
GND3-F012	-020	532 01	A	74A753201
GND3-F012	-020	532 14	A	74A753214
GND3-F012	-020	532 16	A	74A753216
GND3-F012	-030	533 01	B	74A753301
GND3-F012	-030	533 14	B	74A753314
GND3-F012	-030	533 16	B	74A753316
GND3-F013	-020	532 03	A	74A753203
GND3-F013	-030	533 03	B	74A753303
GND3-H003	-010	502 01	A	74A750201
GND3-H003	-010	503 01	B	74A750301
GND3-H007	-010	502 01	A	74A750201
GND3-H007	-010	503 01	B	74A750301
GND3-H008	-010	502 01	A	74A750201
GND3-H008	-010	503 01	B	74A750301
GND3-H016	-010	502 01	A	74A750201
GND3-H016	-010	502 07	A	74A750207
GND3-H016	-010	503 01	B	74A750301
GND3-H016	-010	503 07	B	74A750307
GND3-J001	-010	502 02	A	74A750202
GND3-J001	-010	503 02	B	74A750302
GND3-J004	-010	502 02	A	74A750202
GND3-J004	-010	503 02	B	74A750302
GND3-K001	-010	502 02	A	74A750202
GND3-K101	-010	503 05	B	74A750305
GND3-K103	-010	503 01	B	74A750301
GND3-K104	-010	503 01	B	74A750301
GND3-K105	-010	503 05	B	74A750305
GND3-K105	-070	943 28	B	74R794328
GND3-L001	-010	502 02	A	74A750202
GND3-L001	-070	701 19	A	74A770119
GND3-L001	-070	701 20	A	74A770120
GND3-L103	-010	503 02	B	74A750302
GND3-L103	-070	701 20	A	74A770120
GND3-L104	-010	503 01	B	74A750301
GND3-M001	-070	701 21	A/B	74A770121
GND3-N001	-060	602 25	A	74A760225
GND3-N001	-060	603 25	B	74A760325
GND3-N002	-060	602 25	A	74A760225
GND3-N002	-060	603 25	B	74A760325
GND3-N003	-070	702 01	A/B	74A770201

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND3-P002	-050	602 05	A/B	74A760205
GND3-P003	-060	602 32	A/B	74A760232
GND3-P004	-050	602 05	A/B	74A760205
GND3-P004	-050	602 07	A/B	74A760207
GND3-P004	-060	602 35	A/B	74A760235
GND3-P005	-060	602 32	A/B	74A760232
GND3-P006	-050	602 05	A/B	74A760205
GND3-P007	-050	602 05	A/B	74A760205
GND3-P008	-060	602 26	A	74A760226
GND3-P008	-060	603 26	B	74A760326
GND3-R002	-050	602 07	A/B	74A760207
GND3-R003	-050	602 07	A/B	74A760207
GND3-R004	-050	602 07	A/B	74A760207
GND3-R005	-050	602 07	A/B	74A760207
GND3-R006	-050	602 07	A/B	74A760207
GND3-R007	-050	602 07	A/B	74A760207
GND3-R008	-060	602 34	A/B	74A760234
GND3-S001	-060	602 25	A	74A760225
GND3-S001	-060	603 25	B	74A760325
GND3-T001	-060	602 25	A	74A760225
GND3-T001	-060	603 25	B	74A760325
GND3-T002	-060	602 25	A	74A760225
GND3-T002	-060	603 25	B	74A760325
GND3-T003	-060	602 25	A	74A760225
GND3-T003	-060	603 25	B	74A760325
GND3-U001	-040	542 04	A/B	74A754204
GND3-U008	-040	542 01	A/B	74A754201
GND3-V001	-040	552 04	A/B	74A755204
GND3-V002	-040	552 01	A/B	74A755201
GND4-A001	-020	532 16	A	74A753216
GND4-A001	-030	533 16	B	74A753316
GND4-B001	-020	532 16	A	74A753216
GND4-B001	-030	533 16	B	74A753316
GND4-B002	-020	532 16	A	74A753216
GND4-B002	-030	533 16	B	74A753316
GND4-B002	-070	943 57	A	74R794357
GND4-B003	-020	522 03	A/B	74A752203
GND4-C001	-020	532 11	A	74A753211
GND4-C001	-030	533 11	B	74A753311
GND4-D001	-020	532 10	A/B	74A753210
GND4-D001	-020	532 12	A	74A753212
GND4-D001	-030	533 12	B	74A753312
GND4-D004	-020	532 12	A	74A753212
GND4-D004	-030	533 12	B	74A753312
GND4-D006	-020	532 12	A	74A753212
GND4-D006	-030	533 12	B	74A753312
GND4-D007	-020	532 12	A	74A753212
GND4-D007	-030	533 12	B	74A753312
GND4-F006	-020	532 14	A	74A753214
GND4-F006	-020	532 19	A	74A753219
GND4-F006	-030	533 14	B	74A753314
GND4-F006	-030	533 19	B	74A753319
GND4-F008	-020	532 16	A	74A753216
GND4-F008	-030	533 16	B	74A753316
GND4-F010	-020	532 16	A	74A753216
GND4-F010	-030	533 16	B	74A753316
GND4-F011	-020	532 16	A	74A753216
GND4-F011	-020	532 17	A	74A753217

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND4-F011	-030	533 16	B	74A753316
GND4-F011	-030	533 17	B	74A753317
GND4-F012	-020	532 16	A	74A753216
GND4-F012	-030	533 16	B	74A753316
GND4-H005	-010	502 01	A	74A750201
GND4-H005	-010	503 01	B	74A750301
GND4-H006	-010	502 01	A	74A750201
GND4-H006	-010	502 07	A	74A750207
GND4-H006	-010	503 01	B	74A750301
GND4-H006	-010	503 07	B	74A750307
GND4-H008	-010	502 01	A	74A750201
GND4-H008	-010	503 01	B	74A750301
GND4-H009	-010	502 01	A	74A750201
GND4-H009	-010	503 01	B	74A750301
GND4-H010	-010	502 01	A	74A750201
GND4-H010	-010	502 02	A	74A750202
GND4-H010	-010	503 01	B	74A750301
GND4-H010	-010	503 02	B	74A750302
GND4-H011	-010	502 01	A	74A750201
GND4-H011	-010	503 01	B	74A750301
GND4-H018	-010	502 01	A	74A750201
GND4-H018	-010	502 03	A	74A750203
GND4-H018	-010	503 01	B	74A750301
GND4-H018	-010	503 03	B	74A750303
GND4-J006	-010	502 02	A	74A750202
GND4-J006	-010	502 10	A	74A750210
GND4-J006	-010	503 02	B	74A750302
GND4-J006	-010	503 10	B	74A750310
GND4-J007	-010	502 02	A	74A750202
GND4-J007	-010	503 02	B	74A750302
GND4-J009	-010	502 02	A	74A750202
GND4-J009	-010	503 02	B	74A750302
GND4-J010	-010	502 02	A	74A750202
GND4-J010	-010	503 02	B	74A750302
GND4-J013	-010	502 02	A	74A750202
GND4-J013	-010	503 02	B	74A750302
GND4-J016	-010	502 02	A	74A750202
GND4-J016	-010	503 02	B	74A750302
GND4-J017	-010	502 03	A	74A750203
GND4-J017	-010	503 03	B	74A750303
GND4-J017	-070	943 18	A	74R794318
GND4-K101	-010	503 05	B	74A750305
GND4-K102	-010	503 01	B	74A750301
GND4-K103	-010	503 01	B	74A750301
GND4-K104	-010	503 01	B	74A750301
GND4-L003	-010	502 02	A	74A750202
GND4-L004	-010	502 02	A	74A750202
GND4-L004	-010	503 02	B	74A750302
GND4-L101	-010	503 05	B	74A750305
GND4-L102	-010	503 02	B	74A750302
GND4-L103	-010	503 02	B	74A750302
GND4-L104	-010	503 02	B	74A750302
GND4-L105	-010	503 02	B	74A750302
GND4-L106	-010	503 22	B	74A750322
GND4-N001	-060	602 25	A	74A760225
GND4-N001	-060	603 25	B	74A760325
GND4-P001	-050	602 05	A/B	74A760205
GND4-R001	-060	602 21	A/B	74A760221

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND4-R002	-050	602 07	A/B	74A760207
GND4-R003	-050	602 07	A/B	74A760207
GND4-R004	-050	602 07	A/B	74A760207
GND4-U001	-040	542 04	A/B	74A754204
GND4-U002	-040	542 01	A/B	74A754201
GND4-V001	-040	552 01	A/B	74A755201
GND4-V002	-040	552 15	A/B	74A755215
GND4-V003	-040	552 09	A/B	74A755209
GND4-V004	-040	552 04	A/B	74A755204
GND5-B001	-020	522 03	A/B	74A752203
GND5-E001	-020	532 19	A	74A753219
GND5-E001	-030	533 19	B	74A753319
GND5-F002	-020	532 16	A	74A753216
GND5-F002	-030	533 16	B	74A753316
GND5-J001	-010	502 02	A	74A750202
GND5-J001	-010	503 02	B	74A750302
GND5-L102	-010	503 02	B	74A750302
GND5-P001	-060	602 32	A/B	74A760232
GND5-R001	-060	602 34	A/B	74A760234
GND6-K001	-070	705 52	B	74A770552
GND6-K002	-070	705 50	B	74A770550
GND6-K004	-070	705 56	B	74A770556
GND6-L001	-070	705 51	B	74A770551
GND6-L003	-070	705 54	B	74A770554
GND7-A001	-070	700 57	A/B	74A770057
GND7-C001	-070	700 42	A	74A770042
GND7-C001	-070	705 42	B	74A770542
GND7-C002	-070	700 05	A	74A770005
GND7-C002	-070	705 05	B	74A770505
GND7-C003	-070	700 05	A	74A770005
GND7-C003	-070	705 05	A/B	74A770505
GND7-C004	-070	700 05	A	74A770005
GND7-C004	-070	705 05	B	74A770505
GND7-C005	-070	705 05	B	74A770505
GND7-C006	-070	705 05	B	74A770505
GND7-C007	-070	700 42	A	74A770042
GND7-C007	-070	705 42	B	74A770542
GND7-C008	-070	700 50	A/B	74A770050
GND7-E001	-070	700 07	A	74A770007
GND7-E001	-070	705 07	B	74A770507
GND7-E002	-070	700 07	A	74A770007
GND7-E002	-070	705 07	B	74A770507
GND7-F001	-070	700 06	A	74A770006
GND7-F001	-070	705 06	B	74A770506
GND7-F002	-070	700 06	A	74A770006
GND7-F002	-070	705 06	B	74A770506
GND7-F003	-070	700 06	A	74A770006
GND7-F003	-070	705 06	B	74A770506
GND7-F004	-070	700 06	A	74A770006
GND7-F004	-070	705 06	B	74A770506
GND7-H001	-070	700 13	A/B	74A770013
GND7-H003	-070	700 15	A/B	74A770015
GND7-J001	-070	700 30	A/B	74A770030
GND7-J004	-070	700 12	A/B	74A770012
GND7-J005	-070	700 14	A/B	74A770014
GND7-L001	-070	705 53	B	74A770553
GND7-N001	-070	702 01	A/B	74A770201
GND7-N002	-070	702 01	A/B	74A770201

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND7-W001	-070	701 47	A/B	68A770147
GND7-W002	-070	701 47	A/B	68A770147
GND7-Y001	-070	943 79	A/B	74R794379
GND8-H001	-070	700 27	A/B	74A770027
GND8-H002	-070	700 19	A/B	74A770019
GND8-H003	-070	700 35	A/B	74A770035
GND8-H004	-070	700 21	A/B	74A770021
GND8-H006	-070	700 23	A	74A770023
GND8-H006	-070	705 23	B	74A770523
GND8-H007	-070	700 25	A/B	74A770025
GND8-H008	-070	700 13	A/B	74A770013
GND8-H009	-070	700 29	A/B	74A770029
GND8-H010	-070	700 11	A	74A770011
GND8-H010	-070	705 11	B	74A770511
GND8-H011	-010	502 01	A	74A750201
GND8-H011	-010	503 01	B	74A750301
GND8-H012	-070	700 33	A/B	74A770033
GND8-J001	-070	700 12	A/B	74A770012
GND8-J002	-070	700 14	A/B	74A770014
GND8-J003	-070	700 16	A/B	74A770016
GND8-J004	-070	700 18	A/B	74A770018
GND8-J005	-070	700 20	A/B	74A770020
GND8-K001	-070	705 43	B	74A770543
GND9-A004	-020	532 11	A	74A753211
GND9-A004	-030	533 11	B	74A753311
GND9-A005	-020	522 03	A/B	74A752203
GND9-A008	-020	532 11	A	74A753211
GND9-A008	-020	532 16	A	74A753216
GND9-A008	-030	533 11	B	74A753311
GND9-A008	-030	533 16	B	74A753316
GND9-A008	-070	943 35	A/B	74R794335
GND9-A009	-020	532 11	A	74A753211
GND9-A009	-030	532 38	A/B	74A753238
GND9-A009	-030	533 11	B	74A753311
GND9-B001	-020	532 16	A	74A753216
GND9-B001	-030	533 16	B	74A753316
GND9-B002	-020	522 05	A/B	74A752205
GND9-B002	-020	532 16	A	74A753216
GND9-B002	-030	533 16	B	74A753316
GND9-B003	-020	532 16	A	74A753216
GND9-B003	-030	533 16	B	74A753316
GND9-B004	-020	522 03	A/B	74A752203
GND9-B006	-020	522 03	A/B	74A752203
GND9-C006	-020	532 11	A	74A753211
GND9-C006	-030	533 11	B	74A753311
GND9-C007	-020	532 09	A/B	74A753209
GND9-C007	-020	532 11	A	74A753211
GND9-C007	-030	532 25	A/B	74A753225
GND9-C007	-030	533 11	B	74A753311
GND9-C007	-030	533 19	B	74A753319
GND9-C008	-020	532 04	A	74A753204
GND9-C008	-020	532 11	A	74A753211
GND9-C008	-030	533 04	B	74A753304
GND9-C008	-030	533 11	B	74A753311
GND9-C008	-070	943 36	A/B	74R794336
GND9-C009	-020	532 05	A/B	74A753205
GND9-C011	-020	532 11	A	74A753211
GND9-C011	-020	532 19	A	74A753219

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-C011	-030	532 25	A/B	74A753225
GND9-C011	-030	533 11	B	74A753311
GND9-C011	-030	533 19	B	74A753319
GND9-C011	-070	943 39	A/B	74R794339
GND9-C012	-020	532 17	A	74A753217
GND9-C012	-030	533 17	B	74A753317
GND9-C013	-020	532 19	A	74A753219
GND9-C013	-030	533 19	B	74A753319
GND9-C013	-070	943 63	A/B	74R794363
GND9-C014	-020	532 01	A	74A753201
GND9-C014	-020	532 04	A	74A753204
GND9-C014	-030	533 01	B	74A753301
GND9-C014	-030	533 04	B	74A753304
GND9-C014	-070	943 31	A/B	74R794331
GND9-D003	-020	532 12	A	74A753212
GND9-D003	-020	532 14	A	74A753214
GND9-D003	-020	532 16	A	74A753216
GND9-D003	-020	532 18	A	74A753218
GND9-D003	-030	532 37	A/B	74A753237
GND9-D003	-030	533 12	B	74A753312
GND9-D003	-030	533 14	B	74A753314
GND9-D003	-030	533 16	B	74A753316
GND9-D003	-030	533 18	B	74A753318
GND9-D003	-070	943 40	A/B	74R794340
GND9-D003	-070	943 68	A/B	74R794368
GND9-D003	-070	943 69	A/B	74R794369
GND9-D009	-020	532 12	A	74A753212
GND9-D009	-030	533 12	B	74A753312
GND9-D011	-020	532 12	A	74A753212
GND9-D011	-030	533 12	B	74A753312
GND9-D013	-020	532 10	A/B	74A753210
GND9-D013	-020	532 12	A	74A753212
GND9-D013	-030	532 29	A/B	74A753229
GND9-D013	-030	532 36	A/B	74A753236
GND9-D013	-030	533 12	B	74A753312
GND9-D016	-020	532 02	A	74A753202
GND9-D016	-020	532 04	A	74A753204
GND9-D016	-030	533 02	B	74A753302
GND9-D016	-030	533 04	B	74A753304
GND9-E001	-020	532 19	A	74A753219
GND9-E001	-030	533 19	B	74A753319
GND9-E002	-020	532 17	A	74A753217
GND9-E002	-030	533 17	B	74A753317
GND9-E002	-070	943 27	B	74R794327
GND9-E002	-070	943 30	B	74R794330
GND9-E007	-020	532 16	A	74A753216
GND9-E007	-020	532 19	A	74A753219
GND9-E007	-030	533 16	B	74A753316
GND9-E007	-030	533 19	B	74A753319
GND9-E008	-020	532 19	A	74A753219
GND9-E008	-030	533 19	B	74A753319
GND9-E011	-020	532 17	A	74A753217
GND9-E011	-020	532 19	A	74A753219
GND9-E011	-030	533 17	B	74A753317
GND9-E011	-030	533 19	B	74A753319
GND9-E012	-020	532 19	A	74A753219
GND9-E012	-030	533 19	B	74A753319
GND9-E013	-030	533 17	B	74A753317

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-F004	-020	532 12	A	74A753212
GND9-F004	-020	532 18	A	74A753218
GND9-F004	-030	533 12	B	74A753312
GND9-F004	-030	533 18	B	74A753318
GND9-F014	-020	532 02	A	74A753202
GND9-F014	-030	533 02	B	74A753302
GND9-F015	-020	532 01	A	74A753201
GND9-F015	-020	532 02	A	74A753202
GND9-F015	-020	532 16	A	74A753216
GND9-F015	-030	533 01	B	74A753301
GND9-F015	-030	533 02	B	74A753302
GND9-F015	-030	533 16	B	74A753316
GND9-F017	-030	532 30	A	74A753230
GND9-F017	-030	533 30	B	74A753330
GND9-F018	-020	532 03	A	74A753203
GND9-F018	-020	532 04	A	74A753204
GND9-F018	-020	532 18	A	74A753218
GND9-F018	-030	533 03	B	74A753303
GND9-F018	-030	533 04	B	74A753304
GND9-F018	-030	533 18	B	74A753318
GND9-F019	-020	532 16	A	74A753216
GND9-F019	-030	533 16	B	74A753316
GND9-F020	-020	532 16	A	74A753216
GND9-F020	-020	532 17	A	74A753217
GND9-F020	-030	533 16	B	74A753316
GND9-F020	-030	533 17	B	74A753317
GND9-F021	-020	532 18	A	74A753218
GND9-F021	-030	533 18	B	74A753318
GND9-F022	-020	532 03	A	74A753203
GND9-F022	-020	532 04	A	74A753204
GND9-F022	-020	532 14	A	74A753214
GND9-F022	-030	533 03	B	74A753303
GND9-F022	-030	533 04	B	74A753304
GND9-F022	-030	533 14	B	74A753314
GND9-F029	-020	532 03	A	74A753203
GND9-F029	-030	533 03	B	74A753303
GND9-F030	-020	532 02	A	74A753202
GND9-F030	-020	532 16	A	74A753216
GND9-F030	-030	533 02	B	74A753302
GND9-F030	-030	533 16	B	74A753316
GND9-F033	-020	532 12	A	74A753212
GND9-F033	-020	532 16	A	74A753216
GND9-F033	-030	533 12	B	74A753312
GND9-F033	-030	533 16	B	74A753316
GND9-F034	-020	532 01	A	74A753201
GND9-F034	-020	532 14	A	74A753214
GND9-F034	-030	533 01	B	74A753301
GND9-F034	-030	533 14	B	74A753314
GND9-F036	-020	532 16	A	74A753216
GND9-F036	-030	533 16	B	74A753316
GND9-F037	-020	532 16	A	74A753216
GND9-F037	-030	533 16	B	74A753316
GND9-F038	-020	532 14	A	74A753214
GND9-F038	-020	532 19	A	74A753219
GND9-F038	-030	533 14	B	74A753314
GND9-F038	-030	533 19	B	74A753319
GND9-F041	-020	532 04	A	74A753204
GND9-F041	-030	533 04	B	74A753304

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-F042	-060	602 25	A	74A760225
GND9-H001	-010	502 01	A	74A750201
GND9-H001	-010	502 07	A	74A750207
GND9-H001	-010	503 01	B	74A750301
GND9-H001	-010	503 07	B	74A750307
GND9-H004	-010	502 01	A	74A750201
GND9-H004	-010	503 01	B	74A750301
GND9-H005	-010	502 01	A	74A750201
GND9-H005	-010	502 03	A	74A750203
GND9-H005	-010	503 01	B	74A750301
GND9-H005	-010	503 03	B	74A750303
GND9-H006	-010	502 01	A	74A750201
GND9-H006	-010	503 01	B	74A750301
GND9-H009	-010	502 01	A	74A750201
GND9-H009	-010	502 07	A	74A750207
GND9-H009	-010	503 01	B	74A750301
GND9-H009	-010	503 07	B	74A750307
GND9-H011	-010	502 01	A	74A750201
GND9-H011	-010	503 01	B	74A750301
GND9-H012	-010	502 01	A	74A750201
GND9-H012	-010	502 07	A	74A750207
GND9-H012	-010	503 01	B	74A750301
GND9-H012	-010	503 07	B	74A750307
GND9-J004	-010	502 02	A	74A750202
GND9-J004	-010	503 02	B	74A750302
GND9-J005	-010	502 02	A	74A750202
GND9-J005	-010	503 02	B	74A750302
GND9-J006	-010	502 02	A	74A750202
GND9-J006	-010	503 02	B	74A750302
GND9-J007	-010	502 02	A	74A750202
GND9-J007	-010	503 02	B	74A750302
GND9-J015	-010	502 03	A	74A750203
GND9-J015	-010	502 07	A	74A750207
GND9-J015	-010	502 08	A	74A750208
GND9-J015	-010	503 03	B	74A750303
GND9-J015	-010	503 07	B	74A750307
GND9-J015	-010	503 08	B	74A750308
GND9-J017	-010	502 02	A	74A750202
GND9-J017	-010	503 02	B	74A750302
GND9-J017	-070	943 58	A/B	74R794358
GND9-J019	-010	502 07	A	74A750207
GND9-J019	-010	502 08	A	74A750208
GND9-J019	-010	503 07	B	74A750307
GND9-J019	-010	503 08	B	74A750308
GND9-J019	-070	943 32	A	74R794332
GND9-J019	-070	943 33	B	74R794333
GND9-J028	-010	502 10	A	74A750210
GND9-J028	-010	503 10	B	74A750310
GND9-K001	-010	502 01	A	74A750201
GND9-K002	-010	502 02	A	74A750202
GND9-K101	-010	503 05	B	74A750305
GND9-K101	-010	503 07	B	74A750307
GND9-K101	-010	503 08	B	74A750308
GND9-K102	-010	503 01	B	74A750301
GND9-K103	-010	503 01	B	74A750301
GND9-K104	-010	503 01	B	74A750301
GND9-K106	-010	503 01	B	74A750301
GND9-K106	-010	503 05	B	74A750305

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-K106	-010	503 07	B	74A750307
GND9-L004	-010	503 02	B	74A750302
GND9-L010	-010	502 01	A	74A750201
GND9-L010	-010	502 02	A	74A750202
GND9-L011	-010	502 14	A	74A750214
GND9-L011	-010	503 02	B	74A750302
GND9-L012	-010	502 02	A	74A750202
GND9-L012	-070	943 18	A	74R794318
GND9-L013	-010	502 02	A	74A750202
GND9-L013	-070	943 18	A	74R794318
GND9-L101	-010	503 01	B	74A750301
GND9-L101	-010	503 05	B	74A750305
GND9-L102	-010	503 02	B	74A750302
GND9-L103	-010	503 02	B	74A750302
GND9-L104	-010	503 02	B	74A750302
GND9-M001	-060	602 26	A	74A760226
GND9-M001	-060	602 35	A/B	74A760235
GND9-M001	-060	603 26	B	74A760326
GND9-M002	-050	602 01	A	74A760201
GND9-M002	-050	602 02	A/B	74A760202
GND9-M002	-060	603 01	B	74A760301
GND9-M003	-050	602 01	A	74A760201
GND9-M003	-050	602 04	A/B	74A760204
GND9-M003	-060	603 01	B	74A760301
GND9-M003	-060	603 03	B	74A760303
GND9-M003	-070	986 08	A/B	74R798608
GND9-M004	-050	602 05	A/B	74A760205
GND9-M005	-050	602 02	A/B	74A760202
GND9-M005	-050	602 04	A/B	74A760204
GND9-M005	-060	603 03	B	74A760303
GND9-M005	-070	986 09	A/B	74R798609
GND9-M005	-070	986 10	A/B	74R798610
GND9-M006	-050	602 03	A	74A760203
GND9-M006	-060	603 03	B	74A760303
GND9-M007	-050	602 05	A/B	74A760205
GND9-M007	-060	602 26	A	74A760226
GND9-M008	-050	602 05	A/B	74A760205
GND9-M009	-040	542 11	A/B	74A754211
GND9-M010	-040	542 13	A/B	74A754213
GND9-M011	-060	602 49	A/B	74A760249
GND9-M011	-060	602 50	A/B	74A760250
GND9-N001	-040	552 13	A/B	74A755213
GND9-N002	-060	602 25	A	74A760225
GND9-N002	-060	603 25	B	74A760325
GND9-N003	-050	602 07	A/B	74A760207
GND9-N004	-050	602 07	A/B	74A760207
GND9-N004	-060	602 25	A	74A760225
GND9-N006	-040	552 13	A/B	74A755213
GND9-P001	-060	602 32	A/B	74A760232
GND9-P002	-050	602 05	A/B	74A760205
GND9-P003	-050	602 07	A/B	74A760207
GND9-P003	-060	602 35	A/B	74A760235
GND9-P004	-060	602 32	A/B	74A760232
GND9-P005	-060	602 26	A	74A760226
GND9-P005	-060	603 26	B	74A760326
GND9-P009	-050	602 05	A/B	74A760205
GND9-P012	-050	602 05	A/B	74A760205
GND9-P013	-050	602 07	A/B	74A760207

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-P014	-050	602 07	A/B	74A760207
GND9-P015	-050	602 05	A/B	74A760205
GND9-P015	-050	602 07	A/B	74A760207
GND9-P016	-050	602 05	A/B	74A760205
GND9-P017	-050	602 05	A/B	74A760205
GND9-R001	-060	602 34	A/B	74A760234
GND9-R002	-060	602 34	A/B	74A760234
GND9-R005	-050	602 07	A/B	74A760207
GND9-R008	-050	602 13	A/B	74A760213
GND9-R008	-060	602 34	A/B	74A760234
GND9-R009	-050	602 13	A/B	74A760213
GND9-R009	-060	602 25	A	74A760225
GND9-R009	-060	603 25	B	74A760325
GND9-R012	-060	602 25	A	74A760225
GND9-R012	-060	603 25	B	74A760325
GND9-R015	-050	602 07	A/B	74A760207
GND9-S001	-060	612 22	A/B	74A761222
GND9-S002	-050	602 01	A	74A760201
GND9-S002	-060	603 01	B	74A760301
GND9-S003	-050	602 01	A	74A760201
GND9-S003	-060	603 01	B	74A760301
GND9-S003	-060	612 02	A/B	74A761202
GND9-S004	-050	602 01	A	74A760201
GND9-S004	-060	603 01	B	74A760301
GND9-S004	-060	603 26	B	74A760326
GND9-S004	-060	612 04	A/B	74A761204
GND9-S005	-060	602 26	A	74A760226
GND9-S006	-070	702 00	A/B	74A770200
GND9-S007	-070	702 00	A/B	74A770200
GND9-S008	-050	602 03	A	74A760203
GND9-S008	-060	603 03	B	74A760303
GND9-S009	-060	612 04	A/B	74A761204
GND9-S010	-070	702 00	A/B	74A770200
GND9-T001	-060	602 25	A	74A760225
GND9-T001	-060	603 25	B	74A760325
GND9-T003	-060	602 25	A	74A760225
GND9-T003	-060	603 25	B	74A760325
GND9-T004	-060	602 25	A	74A760225
GND9-T004	-060	603 25	B	74A760325
GND9-T005	-050	602 01	A	74A760201
GND9-T005	-060	603 01	B	74A760301
GND9-T005	-060	612 02	A/B	74A761202
GND9-T006	-050	602 03	A	74A760203
GND9-T006	-060	603 03	B	74A760303
GND9-T006	-060	612 02	A/B	74A761202
GND9-T007	-060	612 11	A/B	74A761211
GND9-T008	-070	702 00	A/B	74A770200
GND9-T009	-070	702 00	A/B	74A770200
GND9-T010	-060	612 04	A/B	74A761204
GND9-T011	-050	602 03	A	74A760203
GND9-T011	-060	603 03	B	74A760303
GND9-T013	-070	702 00	A/B	74A770200
GND9-U001	-040	542 09	A/B	74A754209
GND9-U001	-040	542 15	A/B	74A754215
GND9-U002	-040	542 01	A/B	74A754201
GND9-U003	-040	542 01	A/B	74A754201
GND9-U004	-040	542 04	A/B	74A754204
GND9-U005	-040	542 04	A/B	74A754204

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
GND9-U006	-040	542 01	A/B	74A754201
GND9-U007	-040	542 03	A/B	74A754203
GND9-U010	-040	542 05	A/B	74A754205
GND9-U012	-060	602 36	A/B	74A760236
GND9-U012	-060	602 37	A/B	74A760237
GND9-U013	-040	542 07	A/B	74A754207
GND9-U015	-050	602 01	A	74A760201
GND9-U015	-050	602 03	A	74A760203
GND9-U015	-060	603 01	B	74A760301
GND9-U015	-060	603 03	B	74A760303
GND9-V001	-040	552 01	A/B	74A755201
GND9-V002	-040	552 01	A/B	74A755201
GND9-V003	-040	552 04	A/B	74A755204
GND9-V004	-040	552 09	A/B	74A755209
GND9-V007	-040	552 03	A/B	74A755203
GND9-V008	-040	552 05	A/B	74A755205
GND9-V009	-040	552 15	A/B	74A755215
GND9-V012	-060	602 38	A/B	74A760238
GND9-V012	-060	602 39	A/B	74A760239
GND9-V013	-040	552 07	A/B	74A755207
GND9-V015	-050	602 01	A	74A760201
GND9-V015	-050	602 03	A	74A760203
GND9-V015	-060	603 01	B	74A760301
GND9-V015	-060	603 03	B	74A760303
GND9-Y002	-040	562 10	A/B	68A756210
GND9-Y002	-040	562 12	A/B	68A756212
GND9-Y002	-070	703 00	A/B	68A770300
WTA002	-020	532 11	A	74A753211
WTA002	-020	532 16	A	74A753216
WTA002	-020	532 17	A	74A753217
WTA002	-030	533 11	B	74A753311
WTA002	-030	533 16	B	74A753316
WTA002	-030	533 17	B	74A753317
WTA002	-030	533 19	B	74A753319
WTB001	-020	532 11	A	74A753211
WTB001	-020	532 16	A	74A753216
WTB001	-030	533 11	B	74A753311
WTB001	-030	533 16	B	74A753316
WTB002	-020	522 04	A/B	74A752204
WTB002	-070	701 03	A/B	74A770103
WTB002	-070	701 22	A/B	74A770122
WTC001	-020	532 09	A/B	74A753209
WTC001	-020	532 11	A	74A753211
WTC001	-020	532 16	A	74A753216
WTC001	-020	532 17	A	74A753217
WTC001	-020	532 19	A	74A753219
WTC001	-030	532 23	A/B	74A753223
WTC001	-030	532 26	A/B	74A753226
WTC001	-030	533 11	B	74A753311
WTC001	-030	533 17	B	74A753317
WTC001	-030	533 19	B	74A753319
WTC001	-070	701 36	A/B	74A770136
WTC002	-020	532 04	A	74A753204
WTC002	-020	532 05	A/B	74A753205
WTC002	-020	532 11	A	74A753211
WTC002	-020	532 12	A	74A753212
WTC002	-020	532 16	A	74A753216
WTC002	-020	532 17	A	74A753217

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTC002	-020	532 19	A	74A753219
WTC002	-030	532 26	A/B	74A753226
WTC002	-030	532 38	A/B	74A753238
WTC002	-030	533 04	B	74A753304
WTC002	-030	533 11	B	74A753311
WTC002	-030	533 12	B	74A753312
WTC002	-030	533 16	B	74A753316
WTC002	-030	533 17	B	74A753317
WTC002	-030	533 19	B	74A753319
WTC002	-070	943 36	A/B	74R794336
WTC002	-070	943 39	A/B	74R794339
WTC002	-070	943 40	A/B	74R794340
WTC003	-020	532 17	A	74A753217
WTC003	-030	533 17	B	74A753317
WTC003	-070	701 58	A/B	74A770158
WTC004	-020	532 11	A	74A753211
WTC004	-030	533 11	B	74A753311
WTC004	-070	701 35	A/B	74A770135
WTC005	-020	532 03	A	74A753203
WTC005	-020	532 04	A	74A753204
WTC005	-030	533 03	B	74A753303
WTC005	-030	533 04	B	74A753304
WTC006	-020	532 01	A	74A753201
WTC006	-020	532 02	A	74A753202
WTC006	-030	533 01	B	74A753301
WTC006	-030	533 02	B	74A753302
WTD001	-020	532 02	A	74A753202
WTD001	-020	532 03	A	74A753203
WTD001	-020	532 10	A/B	74A753210
WTD001	-020	532 12	A	74A753212
WTD001	-020	532 14	A	74A753214
WTD001	-020	532 16	A	74A753216
WTD001	-030	533 02	B	74A753302
WTD001	-030	533 03	B	74A753303
WTD001	-030	533 12	B	74A753312
WTD001	-030	533 14	B	74A753314
WTD001	-030	533 16	B	74A753316
WTD001	-070	943 57	A	74R794357
WTD002	-020	532 08	A/B	74A753208
WTD002	-030	532 23	A/B	74A753223
WTD002	-030	532 36	A/B	74A753236
WTD002	-030	532 37	A/B	74A753237
WTD002	-030	532 38	A/B	74A753238
WTE001	-030	533 11	B	74A753311
WTE001	-020	532 01	A	74A753201
WTE001	-020	532 02	A	74A753202
WTE001	-020	532 03	A	74A753203
WTE001	-020	532 04	A	74A753204
WTE001	-020	532 11	A	74A753211
WTE001	-020	532 12	A	74A753212
WTE001	-020	532 14	A	74A753214
WTE001	-020	532 16	A	74A753216
WTE001	-020	532 17	A	74A753217
WTE001	-020	532 18	A	74A753218
WTE001	-020	532 19	A	74A753219
WTE001	-030	533 01	B	74A753301
WTE001	-030	533 02	B	74A753302
WTE001	-030	533 03	B	74A753303

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTE001	-030	533 04	B	74A753304
WTE001	-030	533 11	B	74A753311
WTE001	-030	533 12	B	74A753312
WTE001	-030	533 14	B	74A753314
WTE001	-030	533 16	B	74A753316
WTE001	-030	533 17	B	74A753317
WTE001	-030	533 18	B	74A753318
WTE001	-030	533 19	B	74A753319
WTE001	-030	533 22	B	74A753322
WTE001	-070	943 63	A/B	74R794363
WTE002	-020	532 02	A	74A753202
WTE002	-020	532 11	A	74A753211
WTE002	-020	532 12	A	74A753212
WTE002	-020	532 14	A	74A753214
WTE002	-020	532 16	A	74A753216
WTE002	-020	532 17	A	74A753217
WTE002	-020	532 18	A	74A753218
WTE002	-020	532 19	A	74A753219
WTE002	-030	533 02	B	74A753302
WTE002	-030	533 11	B	74A753311
WTE002	-030	533 12	B	74A753312
WTE002	-030	533 14	B	74A753314
WTE002	-030	533 16	B	74A753316
WTE002	-030	533 17	B	74A753317
WTE002	-030	533 18	B	74A753318
WTE002	-030	533 19	B	74A753319
WTE003	-020	532 04	A	74A753204
WTE003	-020	532 11	A	74A753211
WTE003	-020	532 12	A	74A753212
WTE003	-020	532 14	A	74A753214
WTE003	-020	532 16	A	74A753216
WTE003	-020	532 17	A	74A753217
WTE003	-020	532 18	A	74A753218
WTE003	-020	532 19	A	74A753219
WTE003	-030	533 04	B	74A753304
WTE003	-030	533 11	B	74A753311
WTE003	-030	533 12	B	74A753312
WTE003	-030	533 14	B	74A753314
WTE003	-030	533 16	B	74A753316
WTE003	-030	533 17	B	74A753317
WTE003	-030	533 18	B	74A753318
WTE003	-030	533 19	B	74A753319
WTE003	-070	943 36	A/B	74R794336
WTE003	-070	943 63	A/B	74R794363
WTF001	-020	532 01	A	74A753201
WTF001	-020	532 02	A	74A753202
WTF001	-020	532 03	A	74A753203
WTF001	-020	532 04	A	74A753204
WTF001	-020	532 11	A	74A753211
WTF001	-020	532 12	A	74A753212
WTF001	-020	532 14	A	74A753214
WTF001	-020	532 16	A	74A753216
WTF001	-020	532 17	A	74A753217
WTF001	-020	532 18	A	74A753218
WTF001	-020	532 19	A	74A753219
WTF001	-030	533 01	B	74A753301
WTF001	-030	533 02	B	74A753302
WTF001	-030	533 03	B	74A753303

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTF001	-030	533 04	B	74A753304
WTF001	-030	533 11	B	74A753311
WTF001	-030	533 12	B	74A753312
WTF001	-030	533 14	B	74A753314
WTF001	-030	533 16	B	74A753316
WTF001	-030	533 17	B	74A753317
WTF001	-030	533 18	B	74A753318
WTF001	-030	533 19	B	74A753319
WTF001	-030	533 22	B	74A753322
WTF001	-060	612 13	B	74A761213
WTF001	-070	943 17	A	74R794317
WTF001	-070	943 29	A	74R794329
WTF001	-070	943 36	A/B	74R794336
WTF001	-070	943 39	A/B	74R794339
WTF001	-070	943 40	A/B	74R794340
WTF002	-020	532 02	A	74A753202
WTF002	-020	532 03	A	74A753203
WTF002	-020	532 04	A	74A753204
WTF002	-020	532 11	A	74A753211
WTF002	-020	532 12	A	74A753212
WTF002	-020	532 14	A	74A753214
WTF002	-020	532 16	A	74A753216
WTF002	-020	532 17	A	74A753217
WTF002	-020	532 18	A	74A753218
WTF002	-020	532 19	A	74A753219
WTF002	-030	532 30	A	74A753230
WTF002	-030	533 02	B	74A753302
WTF002	-030	533 03	B	74A753303
WTF002	-030	533 04	B	74A753304
WTF002	-030	533 11	B	74A753311
WTF002	-030	533 12	B	74A753312
WTF002	-030	533 14	B	74A753314
WTF002	-030	533 16	B	74A753316
WTF002	-030	533 17	B	74A753317
WTF002	-030	533 18	B	74A753318
WTF002	-030	533 19	B	74A753319
WTF002	-030	533 22	B	74A753322
WTF002	-030	533 30	B	74A753330
WTF002	-070	943 68	A/B	74R794368
WTF002	-070	943 69	A/B	74R794369
WTF003	-020	532 01	A	74A753201
WTF003	-020	532 02	A	74A753202
WTF003	-020	532 03	A	74A753203
WTF003	-020	532 04	A	74A753204
WTF003	-020	532 12	A	74A753212
WTF003	-020	532 14	A	74A753214
WTF003	-020	532 16	A	74A753216
WTF003	-020	532 18	A	74A753218
WTF003	-030	533 01	B	74A753301
WTF003	-030	533 02	B	74A753302
WTF003	-030	533 03	B	74A753303
WTF003	-030	533 04	B	74A753304
WTF003	-030	533 12	B	74A753312
WTF003	-030	533 14	B	74A753314
WTF003	-030	533 16	B	74A753316
WTF003	-030	533 18	B	74A753318
WTF003	-030	533 19	B	74A753319
WTF003	-030	533 22	B	74A753322

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTF003	-070	701 29	A/B	74A770129
WTF004	-020	532 02	A	74A753202
WTF004	-020	532 12	A	74A753212
WTF004	-020	532 14	A	74A753214
WTF004	-020	532 16	A	74A753216
WTF004	-020	532 17	A	74A753217
WTF004	-020	532 19	A	74A753219
WTF004	-030	532 30	A	74A753230
WTF004	-030	533 02	B	74A753302
WTF004	-030	533 12	B	74A753312
WTF004	-030	533 14	B	74A753314
WTF004	-030	533 16	B	74A753316
WTF004	-030	533 17	B	74A753317
WTF004	-030	533 19	B	74A753319
WTF004	-030	533 30	B	74A753330
WTF005	-020	532 02	A	74A753202
WTF005	-020	532 04	A	74A753204
WTF005	-020	532 11	A	74A753211
WTF005	-020	532 12	A	74A753212
WTF005	-020	532 14	A	74A753214
WTF005	-020	532 16	A	74A753216
WTF005	-020	532 17	A	74A753217
WTF005	-020	532 18	A	74A753218
WTF005	-020	532 19	A	74A753219
WTF005	-030	533 02	B	74A753302
WTF005	-030	533 04	B	74A753304
WTF005	-030	533 11	B	74A753311
WTF005	-030	533 12	B	74A753312
WTF005	-030	533 14	B	74A753314
WTF005	-030	533 16	B	74A753316
WTF005	-030	533 17	B	74A753317
WTF005	-030	533 18	B	74A753318
WTF005	-030	533 19	B	74A753319
WTF005	-030	533 22	B	74A753322
WTF006	-020	532 01	A	74A753201
WTF006	-020	532 02	A	74A753202
WTF006	-020	532 03	A	74A753203
WTF006	-020	532 04	A	74A753204
WTF006	-020	532 11	A	74A753211
WTF006	-020	532 12	A	74A753212
WTF006	-020	532 14	A	74A753214
WTF006	-020	532 16	A	74A753216
WTF006	-020	532 17	A	74A753217
WTF006	-020	532 18	A	74A753218
WTF006	-020	532 19	A	74A753219
WTF006	-030	533 01	B	74A753301
WTF006	-030	533 02	B	74A753302
WTF006	-030	533 03	B	74A753303
WTF006	-030	533 04	B	74A753304
WTF006	-030	533 11	B	74A753311
WTF006	-030	533 12	B	74A753312
WTF006	-030	533 14	B	74A753314
WTF006	-030	533 16	B	74A753316
WTF006	-030	533 17	B	74A753317
WTF006	-030	533 18	B	74A753318
WTF006	-030	533 19	B	74A753319
WTF006	-030	533 22	B	74A753322
WTF007	-020	532 04	A	74A753204

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTF007	-020	532 11	A	74A753211
WTF007	-020	532 12	A	74A753212
WTF007	-020	532 14	A	74A753214
WTF007	-020	532 16	A	74A753216
WTF007	-020	532 17	A	74A753217
WTF007	-020	532 18	A	74A753218
WTF007	-020	532 19	A	74A753219
WTF007	-030	533 04	B	74A753304
WTF007	-030	533 11	B	74A753311
WTF007	-030	533 12	B	74A753312
WTF007	-030	533 14	B	74A753314
WTF007	-030	533 16	B	74A753316
WTF007	-030	533 17	B	74A753317
WTF007	-030	533 18	B	74A753318
WTF007	-030	533 19	B	74A753319
WTF007	-030	533 22	B	74A753322
WTF008	-020	532 16	A	74A753216
WTF008	-030	533 16	B	74A753316
WTF008	-070	701 31	A/B	74A770131
WTF009	-060	602 25	A	74A760225
WTF010	-020	532 18	A	74A753218
WTF010	-030	533 18	B	74A753318
WTF010	-030	533 22	B	74A753322
WTF010	-070	701 29	A/B	74A770129
WTH001	-010	502 01	A	74A750201
WTH001	-010	502 02	A	74A750202
WTH001	-010	502 03	A	74A750203
WTH001	-010	502 07	A	74A750207
WTB001	-010	503 01	B	74A750301
WTH001	-010	503 02	B	74A750302
WTH001	-010	503 03	B	74A750303
WTH001	-010	503 07	B	74A750307
WTH001	-070	701 27	A/B	74A770127
WTB001	-070	701 68	A/B	74A770168
WTJ001	-010	502 01	A	74A750201
WTJ001	-010	502 02	A	74A750202
WTJ001	-010	502 03	A	74A750203
WTJ001	-010	502 07	A	74A750207
WTJ001	-010	502 08	A	74A750208
WTJ001	-010	503 01	B	74A750301
WTJ001	-010	503 02	B	74A750302
WTJ001	-010	503 03	B	74A750303
WTJ001	-010	503 07	B	74A750307
WTJ001	-010	503 08	B	74A750308
WTJ001	-070	701 72	A/B	74A770172
WTJ001	-070	943 58	A/B	74R794358
WTK001	-010	503 01	B	74A750301
WTK001	-010	503 02	B	74A750302
WTK001	-010	503 03	B	74A750303
WTK001	-010	503 05	B	74A750305
WTK001	-070	706 75	B	74A770675
WTK002	-010	503 01	B	74A750301
WTK002	-010	503 02	B	74A750302
WTK002	-010	503 05	B	74A750305
WTK002	-010	503 07	B	74A750307
WTK002	-010	503 08	B	74A750308
WTK002	-010	503 10	B	74A750310
WTK002	-030	533 04	B	74A753304

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTL001	-010	502 01	A	74A750201
WTL001	-010	502 02	A	74A750202
WTL001	-010	502 07	A	74A750207
WTL001	-010	502 08	A	74A750208
WTL001	-010	502 10	A	74A750210
WTL001	-010	502 14	A	74A750214
WTL001	-010	503 02	B	74A750302
WTL001	-010	503 03	B	74A750303
WTL001	-010	503 05	B	74A750305
WTL001	-010	503 08	B	74A750308
WTL001	-010	503 10	B	74A750310
WTL001	-010	503 20	B	74A750320
WTL001	-030	533 12	B	74A753312
WTL001	-070	701 19	A	74A770119
WTL001	-070	701 20	A	74A770120
WTL001	-070	701 28	A/B	74A770128
WTL001	-070	706 78	B	74A770678
WTL002	-010	502 16	A	74A750216
WTL002	-010	502 18	A	74A750218
WTL002	-010	503 16	B	74A750316
WTL002	-010	503 18	B	74A750318
WTL002	-010	503 23	B	74A750323
WTL002	-070	701 37	A	74A770137
WTL002	-070	701 38	B	74A770138
WTL002	-070	701 39	A	74A770139
WTL002	-070	701 40	B	74A770140
WTM002	-050	602 05	A/B	74A760205
WTM002	-050	602 07	A/B	74A760207
WTM002	-060	602 25	A	74A760225
WTM002	-060	602 26	A	74A760226
WTM002	-060	603 25	B	74A760325
WTM002	-060	603 26	B	74A760326
WTM015	-040	542 13	A/B	74A754213
WTM015	-050	602 05	A/B	74A760205
WTM015	-060	602 26	A	74A760226
WTM015	-060	603 26	B	74A760326
WTM016	-040	542 16	A/B	74A754216
WTM016	-060	602 26	A	74A760226
WTM016	-060	603 26	B	74A760326
WTM016	-070	701 21	A/B	74A770121
WTN002	-050	602 07	A/B	74A760207
WTN002	-060	602 25	A	74A760225
WTN002	-060	603 25	B	74A760325
WTN015	-040	552 13	A/B	74A755213
WTN015	-060	602 25	A	74A760225
WTN015	-060	603 25	B	74A760325
WTP001	-050	602 05	A/B	74A760205
WTP001	-050	602 07	A/B	74A760207
WTP001	-050	602 13	A/B	74A760213
WTP001	-060	602 25	A	74A760225
WTP001	-060	602 26	A	74A760226
WTP001	-060	602 35	A/B	74A760235
WTP001	-060	603 25	B	74A760325
WTP001	-060	603 26	B	74A760326
WTP003	-060	602 25	A	74A760225
WTP003	-060	602 26	A	74A760226
WTP003	-060	603 25	B	74A760325
WTP003	-060	603 26	B	74A760326

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTP004	-060	602 20	A/B	74A760220
WTP004	-060	602 32	A/B	74A760232
WTP006	-050	602 05	A/B	74A760205
WTP006	-070	702 00	A/B	74A770200
WTP007	-050	602 05	A/B	74A760205
WTP007	-050	602 07	A/B	74A760207
WTP008	-050	602 07	A/B	74A760207
WTP008	-070	702 00	A/B	74A770200
WTP009	-060	602 25	A	74A760225
WTP009	-060	603 25	B	74A760325
WTP009	-070	702 00	A/B	74A770200
WTP010	-060	602 31	A/B	74A760231
WTP010	-070	702 00	A/B	74A770200
WTR001	-050	602 05	A/B	74A760205
WTR001	-050	602 07	A/B	74A760207
WTR001	-060	602 25	A	74A760225
WTR001	-060	602 26	A	74A760226
WTR001	-060	603 25	B	74A760325
WTR001	-060	603 26	B	74A760326
WTR002	-060	602 25	A	74A760225
WTR002	-060	602 26	A	74A760226
WTR002	-060	603 25	B	74A760325
WTR002	-060	603 26	B	74A760326
WTR003	-050	602 05	A/B	74A760205
WTR003	-050	602 07	A/B	74A760207
WTR005	-050	602 07	A/B	74A760207
WTR005	-070	702 00	A/B	74A770200
WTR006	-050	602 05	A/B	74A760205
WTR006	-050	602 07	A/B	74A760207
WTR007	-060	602 33	A/B	74A760233
WTR007	-070	702 00	A/B	74A770200
WTR008	-060	602 25	A	74A760225
WTR008	-060	603 25	B	74A760325
WTR008	-070	702 00	A/B	74A770200
WTS001	-060	602 26	A	74A760226
WTS001	-060	603 26	B	74A760326
WTS001	-070	702 00	A/B	74A770200
WTS002	-060	602 26	A	74A760226
WTS002	-060	603 26	B	74A760326
WTS002	-060	612 09	A/B	74A761209
WTS002	-070	702 00	A/B	74A770200
WTS003	-060	602 25	A	74A760225
WTS003	-060	602 26	A	74A760226
WTS003	-060	603 25	B	74A760325
WTS003	-060	603 26	B	74A760326
WTS003	-060	612 14	A/B	74A761214
WTS003	-060	612 20	A/B	74A761220
WTS003	-070	701 01	A/B	74A770101
WTS003	-070	701 02	A/B	74A770102
WTS004	-060	602 26	A	74A760226
WTS004	-060	603 26	B	74A760326
WTS004	-070	702 00	A/B	74A770200
WTS005	-060	602 25	A	74A760225
WTS005	-060	602 26	A	74A760226
WTS005	-060	603 25	B	74A760325
WTS005	-060	603 26	B	74A760326
WTS005	-060	612 21	A/B	74A761221
WTS006	-060	602 25	A	74A760225

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTS006	-060	603 25	B	74A760325
WTS006	-070	702 00	A/B	74A770200
WTT001	-060	602 25	A	74A760225
WTT001	-060	603 25	B	74A760325
WTT001	-060	612 02	A/B	74A761202
WTT002	-060	602 25	A	74A760225
WTT002	-060	603 25	B	74A760325
WTT002	-070	702 00	A/B	74A770200
WTT003	-060	602 25	A	74A760225
WTT003	-060	603 25	B	74A760325
WTT003	-070	702 00	A/B	74A770200
WTT004	-060	602 25	A	74A760225
WTT004	-060	602 26	A	74A760226
WTT004	-060	603 25	B	74A760325
WTT004	-060	603 26	B	74A760326
WTT005	-060	602 25	A	74A760225
WTT005	-060	603 25	B	74A760325
WTT005	-070	702 00	A/B	74A770200
WTT006	-060	602 25	A	74A760225
WTT006	-060	603 25	B	74A760325
WTU001	-040	542 02	A/B	74A754202
WTU001	-040	542 03	A/B	74A754203
WTU001	-040	542 08	A/B	74A754208
WTU001	-070	701 23	A/B	74A770123
WTU002	-040	542 05	A/B	74A754205
WTU002	-040	542 07	A/B	74A754207
WTU002	-040	542 09	A/B	74A754209
WTU002	-040	542 10	A/B	74A754210
WTU002	-040	542 15	A/B	74A754215
WTU002	-040	552 05	A	74A755205
WTU004	-040	542 09	A/B	74A754209
WTU004	-070	701 33	A/B	74A770133
WTU005	-040	542 01	A/B	74A754201
WTU005	-040	542 03	A/B	74A754203
WTU005	-040	542 04	A/B	74A754204
WTU005	-040	542 06	A/B	74A754206
WTU005	-070	701 25	A/B	74A770125
WTU006	-040	542 15	A/B	74A754215
WTU006	-070	701 05	A/B	74A770105
WTU007	-040	542 02	A/B	74A754202
WTU007	-070	701 32	A/B	74A770132
WTU008	-040	542 07	A/B	74A754207
WTU008	-070	701 66	A/B	74A770166
WTV001	-040	552 02	A/B	74A755202
WTV001	-040	552 03	A/B	74A755203
WTV001	-040	552 08	A/B	74A755208
WTV001	-070	701 24	A/B	74A770124
WTV002	-040	552 05	A/B	74A755205
WTV002	-040	552 07	A/B	74A755207
WTV002	-040	552 09	A/B	74A755209
WTV002	-040	552 10	A/B	74A755210
WTV002	-040	552 15	A/B	74A755215
WTV005	-040	552 01	A/B	74A755201
WTV005	-040	552 03	A/B	74A755203
WTV005	-040	552 04	A/B	74A755204
WTV005	-040	552 06	A/B	74A755206
WTV005	-070	701 26	A/B	74A770126
WTV006	-040	552 15	A/B	74A755215

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
WTV006	-070	701 04	A/B	74A770104
WTV007	-040	552 07	A/B	74A755207
WTV007	-070	701 67	A/B	74A770167
WTW001	-070	701 47	A/B	68A770147
WTW001	-070	701 57	A/B	74A770157
WTW001	-070	701 83	A/B	68A770183
WTW002	-070	701 47	A/B	68A770147
WTW003	-070	701 47	A/B	68A770147
WTW003	-070	701 83	A/B	68A770183
WTY001	-070	701 41	A/B/A/B	74A770141
WTY001	-070	701 42	A/B/A/B	74A770142
WTY001	-070	701 44	A/B/A/B	74A770144
WTY001	-070	701 81	A/B	74A770181
WTY001	-070	701 82	A/B	74A770182
WTY001	-070	701 85	A/B	74A770185
WTY001	-070	703 00	A/B	68A770300
WTY001	-070	703 01	A/B	68A770301
WTY001	-070	703 02	A/B	68A770302
WTY001	-070	703 03	A/B	68A770303
WTY002	-070	701 43	A/B/A/B	74A770143
WTY002	-070	701 50	A/B/A/B	74A770150
WTY002	-070	701 51	A/B/A/B	74A770151
WTY002	-070	701 86	A/B	74A770186
1A-A135	-020	522 12	A/B	74A752212
1A-A135	-030	532 38	A/B	74A753238
1A-A138	-070	700 57	A/B	74A770057
1A-C023	-020	532 09	A/B	74A753209
1A-D024	-020	532 08	A/B	74A753208
1A-J084	-070	700 14	A/B	74A770014
1A-P001	-060	602 22	A/B	74A760222
1A-R002	-060	602 21	A/B	74A760221
1CBA073	-070	700 57	A/B	74A770057
1CBA074	-070	700 57	A/B	74A770057
1CBC025	-070	700 42	A	74A770042
1CBC025	-070	705 42	B	74A770542
1CBC027	-070	700 42	A	74A770042
1CBC027	-070	705 42	B	74A770542
1CBC028	-070	700 42	A	74A770042
1CBC028	-070	705 42	B	74A770542
1CBC029	-070	700 42	A	74A770042
1CBC029	-070	705 42	B	74A770542
1CBC038	-070	700 42	A	74A770042
1CBC038	-070	705 42	B	74A770542
1CBC039	-070	700 42	A	74A770042
1CBC039	-070	705 42	B	74A770542
1CBC048	-070	700 05	A	74A770005
1CBC048	-070	705 05	B	74A770505
1CBC073	-070	700 42	A	74A770042
1CBC073	-070	705 42	B	74A770542
1CBC075	-070	700 42	A	74A770042
1CBC075	-070	705 42	B	74A770542
1CBC085	-070	700 42	A	74A770042
1CBC085	-070	705 42	B	74A770542
1CBC086	-070	700 42	A	74A770042
1CBC086	-070	705 42	B	74A770542
1CBC087	-070	700 42	A	74A770042
1CBC087	-070	705 42	B	74A770542
1CBC088	-070	700 42	A	74A770042

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
1CBC088	-070	705 42	B	74A770542
1CBC136	-070	700 42	A	74A770042
1CBC136	-070	705 42	B	74A770542
1CBC139	-070	700 42	A	74A770042
1CBC139	-070	705 42	B	74A770542
1CBC147	-070	700 42	A	74A770042
1CBC147	-070	705 42	B	74A770542
1CBD030	-070	700 02	A/B	74A770002
1CBD031	-070	700 02	A/B	74A770002
1CBD032	-070	700 02	A/B	74A770002
1CBD037	-070	700 02	A/B	74A770002
1CBD045	-070	700 02	A/B	74A770002
1CBD074	-070	700 02	A/B	74A770002
1CBD074	-070	700 04	A/B	74A770004
1CBD132	-070	700 02	A/B	74A770002
1CBD133	-070	700 02	A/B	74A770002
1CBD134	-070	700 02	A/B	74A770002
1CRD124	-070	700 44	A/B	74A770044
1J-A138	-070	700 57	A/B	74A770057
1J-A153	-030	532 38	A/B	74A753238
1J-A153	-070	943 38	A/B	74R794338
1J-C021	-030	532 26	A/B	74A753226
1J-G089	-020	532 11	A	74A753211
1J-G089	-030	533 11	B	74A753311
1J-H004	-070	700 15	A/B	74A770015
1J-J084	-070	700 14	A/B	74A770014
1K-A130	-070	700 57	A/B	74A770057
1K-C007	-020	532 07	A/B	74A753207
1K-C007	-020	532 17	A	74A753217
1K-C007	-030	532 25	A/B	74A753225
1K-C007	-030	533 17	B	74A753317
1K-C007	-060	602 22	A/B	74A760222
1K-C007	-070	943 40	A/B	74R794340
1K-C022	-020	532 07	A/B	74A753207
1K-C022	-030	532 26	A/B	74A753226
1K-C022	-030	532 28	A/B	74A753228
1K-C042	-070	700 42	A	74A770042
1K-C042	-070	705 42	B	74A770542
1K-C055	-070	700 05	A	74A770005
1K-C055	-070	705 05	B	74A770505
1K-C058	-070	700 05	A	74A770005
1K-C058	-070	705 05	B	74A770505
1K-C060	-070	700 05	A	74A770005
1K-C060	-070	705 05	B	74A770505
1K-C076	-070	700 05	A	74A770005
1K-C076	-070	705 05	B	74A770505
1K-C079	-070	700 42	A	74A770042
1K-C079	-070	705 42	B	74A770542
1K-C080	-070	700 42	A	74A770042
1K-C080	-070	705 42	B	74A770542
1K-C083	-070	700 05	A	74A770005
1K-C083	-070	705 05	B	74A770505
1K-C094	-070	700 42	A	74A770042
1K-C094	-070	705 42	B	74A770542
1K-C096	-070	700 05	A	74A770005
1K-C096	-070	705 05	B	74A770505
1K-C097	-070	700 42	A	74A770042
1K-C097	-070	705 42	B	74A770542

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
1K-C099	-070	700 05	A	74A770005
1K-C099	-070	705 05	B	74A770505
1K-C100	-070	700 05	A	74A770005
1K-C100	-070	705 05	B	74A770505
1K-C101	-070	700 05	A	74A770005
1K-C101	-070	705 05	B	74A770505
1K-C102	-070	700 05	A	74A770005
1K-C102	-070	705 05	B	74A770505
1K-C103	-070	700 05	A	74A770005
1K-C103	-070	705 05	B	74A770505
1K-C106	-070	700 05	A	74A770005
1K-C106	-070	705 05	B	74A770505
1K-C111	-070	700 42	A	74A770042
1K-C111	-070	705 42	B	74A770542
1K-C112	-070	700 05	A	74A770005
1K-C112	-070	705 05	B	74A770505
1K-C127	-070	700 05	A	74A770005
1K-C127	-070	705 05	B	74A770505
1K-C128	-070	700 42	A	74A770042
1K-C128	-070	705 42	B	74A770542
1K-C129	-070	700 42	A	74A770042
1K-C129	-070	705 42	B	74A770542
1K-C140	-070	700 05	A	74A770005
1K-C140	-070	705 05	B	74A770505
1K-C143	-070	700 50	A/B	74A770050
1K-C145	-030	532 28	A/B	74A753228
1K-C145	-030	532 29	A/B	74A753229
1K-C145	-030	532 43	A/B	74A753243
1K-C154	-070	700 05	A	74A770005
1K-C154	-070	705 05	B	74A770505
1K-C156	-070	700 05	A	74A770005
1K-C156	-070	705 05	B	74A770505
1K-D008	-020	532 16	A	74A753216
1K-D008	-030	532 27	A/B	74A753227
1K-D008	-030	532 29	A/B	74A753229
1K-D008	-030	532 43	A/B	74A753243
1K-D008	-030	533 16	B	74A753316
1K-D008	-060	602 21	A/B	74A760221
1K-D104	-070	700 02	A/B	74A770002
1K-D104	-070	700 04	A/B	74A770004
1K-D104	-070	705 04	B	74A770504
1K-D105	-070	700 02	A/B	74A770002
1K-D105	-070	700 04	A/B	74A770004
1K-D105	-070	705 04	B	74A770504
1K-D142	-070	700 04	A/B	74A770004
1K-D142	-070	705 04	B	74A770504
1K-D144	-070	700 04	A/B	74A770004
1K-D144	-070	705 04	B	74A770504
1K-D146	-030	532 25	A/B	74A753225
1K-D146	-030	532 27	A/B	74A753227
1K-D146	-070	943 40	A/B	74R794340
1K-F043	-070	700 06	A	74A770006
1K-F043	-070	705 06	B	74A770506
1K-F053	-070	700 06	A	74A770006
1K-F053	-070	705 06	B	74A770506
1K-F054	-070	700 06	A	74A770006
1K-F054	-070	705 06	B	74A770506
1K-F056	-070	700 06	A	74A770006

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
1K-F056	-070	705 06	B	74A770506
1K-F057	-070	700 06	A	74A770006
1K-F057	-070	705 06	B	74A770506
1K-F059	-070	700 06	A	74A770006
1K-F059	-070	705 06	B	74A770506
1K-F063	-070	700 06	A	74A770006
1K-F063	-070	705 06	B	74A770506
1K-F066	-070	700 06	A	74A770006
1K-F066	-070	705 06	B	74A770506
1K-F077	-070	700 06	A	74A770006
1K-F077	-070	705 06	B	74A770506
1K-F078	-070	700 06	A	74A770006
1K-F078	-070	705 06	B	74A770506
1K-F081	-070	700 06	A	74A770006
1K-F081	-070	705 06	B	74A770506
1K-F082	-070	700 06	A	74A770006
1K-F082	-070	705 06	B	74A770506
1K-F122	-070	700 06	A	74A770006
1K-F122	-070	705 06	B	74A770506
1P-A019	-030	532 26	A/B	74A753226
1P-A019	-070	943 34	A/B	74R794334
1P-A135	-020	532 16	A	74A753216
1P-A135	-030	533 16	B	74A753316
1P-A135	-070	943 57	A	74R794357
1P-A138	-030	532 38	A/B	74A753238
1P-A138	-070	943 38	A/B	74R794338
1P-A153	-020	522 12	A/B	74A752212
1P-C005	-020	532 17	A	74A753217
1P-C005	-030	533 17	B	74A753317
1P-C007	-020	532 17	A	74A753217
1P-C007	-030	533 17	B	74A753317
1P-C019	-030	532 26	A/B	74A753226
1P-C019	-070	943 34	A/B	74R794334
1P-C022	-020	532 11	A	74A753211
1P-C022	-030	533 11	B	74A753311
1P-C023	-020	532 11	A	74A753211
1P-C023	-030	533 11	B	74A753311
1P-C072	-020	532 05	A/B	74A753205
1P-C072	-020	532 11	A	74A753211
1P-C072	-030	533 11	B	74A753311
1P-C072A	-020	532 11	A	74A753211
1P-C072A	-030	533 11	B	74A753311
1P-C072B	-020	532 05	A/B	74A753205
1P-C145	-020	532 11	A	74A753211
1P-C145	-030	533 11	B	74A753311
1P-C145	-070	943 39	A/B	74R794339
1P-D006	-020	532 16	A	74A753216
1P-D006	-030	533 16	B	74A753316
1P-D008	-020	532 16	A	74A753216
1P-D008	-030	533 16	B	74A753316
1P-D024	-020	532 12	A	74A753212
1P-D024	-030	533 12	B	74A753312
1P-D035	-020	532 10	A/B	74A753210
1P-D035A	-020	532 12	A	74A753212
1P-D035A	-030	533 12	B	74A753312
1P-D035B	-020	532 10	A/B	74A753210
1P-D146	-020	532 12	A	74A753212
1P-D146	-030	533 12	B	74A753312

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
1P-D146	-070	943 40	A/B	74R794340
1P-D155	-020	532 12	A	74A753212
1P-D155	-030	533 12	B	74A753312
1P-H004	-010	502 01	A	74A750201
1P-H004	-010	503 01	B	74A750301
1P-J084	-010	502 02	A	74A750202
1P-J084	-010	503 02	B	74A750302
1P-J137	-010	502 02	A	74A750202
1P-J137	-010	503 02	B	74A750302
1P-J137	-070	943 58	A/B	74R794358
1P-P001	-050	602 19	A/B	74A760219
1P-R002	-050	602 13	A/B	74A760213
1S-G160	-020	532 11	A	74A753211
1S-G160	-030	533 11	B	74A753311
1S-H020	-070	700 15	A/B	74A770015
1S-H049	-070	700 15	A/B	74A770015
1S-H050	-070	700 15	A/B	74A770015
1S-H051	-070	700 15	A/B	74A770015
1S-H052	-070	700 15	A/B	74A770015
1S-H141	-010	502 01	A	74A750201
1S-H141	-010	503 01	B	74A750301
1S-J017	-070	700 14	A/B	74A770014
1S-J018	-070	700 14	A/B	74A770014
1S-J036	-070	700 14	A/B	74A770014
1T-D046	-020	532 12	A	74A753212
1T-D046	-030	533 12	B	74A753312
1TBH090	-070	700 15	A/B	74A770015
1X-C009	-030	532 25	A/B	74A753225
1X-C009	-030	532 27	A/B	74A753227
1X-C107	-020	532 05	A/B	74A753205
1X-C107	-020	532 09	A/B	74A753209
1X-C107	-030	532 38	A/B	74A753238
1X-D010	-030	532 28	A/B	74A753228
1X-D010	-030	532 29	A/B	74A753229
1X-D026	-020	532 08	A/B	74A753208
1X-D026	-070	700 44	A/B	74A770044
1X-D108	-020	532 10	A/B	74A753210
1X-D108	-030	532 23	A/B	74A753223
1X-D108	-030	532 36	A/B	74A753236
1X-E123	-020	532 09	A/B	74A753209
1X-E123	-070	700 44	A/B	74A770044
10CBC016	-070	700 42	A	74A770042
10CBC016	-070	705 42	B	74A770542
10CBD001	-070	700 02	A/B	74A770002
10CBD002	-070	700 02	A/B	74A770002
10P-F015	-020	532 12	A	74A753212
10P-F015	-030	533 12	B	74A753312
10P-G009	-020	532 06	A	74A753206
10P-G009	-030	533 06	B	74A753306
10P-G017	-020	532 06	A	74A753206
10P-G017	-030	533 06	B	74A753306
10P-J005	-010	502 02	A	74A750202
10P-J005	-010	503 02	B	74A750302
10P-L018	-010	503 02	B	74A750302
10P-P003	-060	602 32	A/B	74A760232
10P-P006A	-060	602 32	A/B	74A760232
10P-P006B	-060	602 32	A/B	74A760232
10P-P008	-050	602 05	A/B	74A760205

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
10P-P010	-060	602 32	A/B	74A760232
10P-R004	-060	602 34	A/B	74A760234
10P-R007A	-060	602 34	A/B	74A760234
10P-R007B	-060	602 34	A/B	74A760234
10P-R011	-060	602 34	A/B	74A760234
10P-R012	-060	602 34	A/B	74A760234
10S-H014	-070	700 25	A/B	74A770025
12CBD002	-070	700 02	A/B	74A770002
12CBD002	-070	700 04	A/B	74A770004
12CBD002	-070	705 04	B	74A770504
12CBD028	-070	700 10	A/B	74A770010
12CBD070	-070	700 10	A/B	74A770010
12CBD071	-070	700 10	A/B	74A770010
12CBH003	-010	502 01	A	74A750201
12CBH003	-010	502 13	A/B	74A750213
12CBH003	-010	503 01	B	74A750301
12CBJ001	-010	502 02	A	74A750202
12CBJ001	-010	502 12	A/B	74A750212
12CBJ001	-010	503 02	B	74A750302
12J-G029	-020	532 12	A	74A753212
12J-G029	-020	532 16	A	74A753216
12J-G029	-030	533 12	B	74A753312
12J-G029	-030	533 16	B	74A753316
12J-G060	-020	532 13	A/B	74A753213
12J-G061	-020	532 13	A/B	74A753213
12K-C065	-070	705 05	B	74A770505
12K-C066	-070	705 05	B	74A770505
12K-C067	-070	705 05	B	74A770505
12K-C068	-070	705 05	B	74A770505
12K-C069	-070	705 05	B	74A770505
12K-E012	-070	700 07	A	74A770007
12K-E012	-070	705 07	B	74A770507
12K-E017	-070	700 07	A	74A770007
12K-E017	-070	705 07	B	74A770507
12K-E018	-070	700 07	A	74A770007
12K-E018	-070	705 07	B	74A770507
12K-E020	-070	700 04	A	74A770004
12K-E020	-070	700 07	A	74A770007
12K-E020	-070	705 04	B	74A770504
12K-E020	-070	705 07	B	74A770507
12K-E022	-070	700 07	A	74A770007
12K-E022	-070	705 07	B	74A770507
12K-E043	-070	700 07	A	74A770007
12K-E043	-070	705 07	B	74A770507
12K-E093	-070	705 07	B	74A770507
12K-F013	-070	700 06	A	74A770006
12K-F013	-070	705 06	B	74A770506
12K-F014	-070	700 06	A	74A770006
12K-F014	-070	705 06	B	74A770506
12K-F015	-070	700 06	A	74A770006
12K-F015	-070	705 06	B	74A770506
12K-F016	-070	700 06	A	74A770006
12K-F016	-070	705 06	B	74A770506
12K-F019	-070	700 06	A	74A770006
12K-F019	-070	705 06	B	74A770506
12K-F023	-070	700 06	A	74A770006
12K-F023	-070	705 06	B	74A770506
12K-F024	-070	700 06	A	74A770006

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
12K-F024	-070	705 06	B	74A770506
12K-F025	-070	700 06	A	74A770006
12K-F025	-070	705 06	B	74A770506
12K-F027	-070	700 06	A	74A770006
12K-F027	-070	705 06	B	74A770506
12K-F042	-070	700 06	A	74A770006
12K-F042	-070	705 06	B	74A770506
12K-F044	-070	700 06	A	74A770006
12K-F044	-070	705 06	B	74A770506
12K-F062	-070	700 06	A	74A770006
12K-F062	-070	705 06	B	74A770506
12P-A004A	-020	532 16	A	74A753216
12P-A004A	-030	533 16	B	74A753316
12P-A004A	-070	943 35	A/B	74R794335
12P-D004A	-020	532 12	A	74A753212
12P-D004A	-030	533 12	B	74A753312
12P-D004A	-070	943 35	A/B	74R794335
12P-G005	-020	532 06	A	74A753206
12P-G005	-030	533 06	B	74A753306
12P-G007	-020	532 06	A	74A753206
12P-G007	-030	533 06	B	74A753306
12P-G029	-070	701 12	A/B	74A770112
12P-G060	-070	701 14	A/B	74A770114
12P-G061	-070	701 13	A/B	74A770113
12P-H008	-010	502 01	A	74A750201
12P-H008	-010	503 01	B	74A750301
12P-R006	-060	602 33	A/B	74A760233
12S-G046	-070	701 12	A/B	74A770112
12S-G049	-070	701 13	A/B	74A770113
12S-G051	-070	701 11	A/B	74A770111
12S-G057	-070	701 14	A/B	74A770114
12S-H009	-070	700 13	A/B	74A770013
12S-H010	-070	700 31	A/B	74A770031
12S-H011	-070	700 31	A/B	74A770031
12S-P048	-070	701 15	A/B	74A770115
12S-P055	-070	702 00	A/B	74A770200
12S-P059	-070	701 16	A/B	74A770116
12S-P091	-070	701 55	A/B	74A770155
12S-R047	-070	701 17	A/B	74A770117
12S-R053	-070	702 00	A/B	74A770200
12S-R058	-070	701 18	A/B	74A770118
12S-R092	-070	701 56	A/B	74A770156
12TBC084	-070	700 05	A	74A770005
12TBC084	-070	705 05	B	74A770505
13CBC001	-070	700 05	A	74A770005
13CBC001	-070	705 05	B	74A770505
13K-D009	-070	700 04	A/B	74A770004
13K-D009	-070	705 04	B	74A770504
13P-D003	-020	532 16	A	74A753216
13P-D003	-030	533 16	B	74A753316
13P-G008	-020	532 06	A	74A753206
13P-G008	-030	533 06	B	74A753306
13P-P004	-050	602 05	A/B	74A760205
13P-P006	-040	562 01	A/B	74A756201
13P-R005	-040	562 02	A/B	74A756202
13S-H002	-070	700 13	A/B	74A770013
15CBC001	-070	700 05	A	74A770005
15CBC001	-070	705 05	B	74A770505

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
15J-K006	-010	502 01	A	74A750201
15J-K006	-010	503 01	B	74A750301
15J-K007	-010	502 01	A	74A750201
15J-K007	-010	503 01	B	74A750301
15P-E003A	-030	532 21	A/B	74A753221
15P-E003B	-030	532 21	A/B	74A753221
15P-E006	-030	532 21	A/B	74A753221
15P-E007	-030	532 21	A/B	74A753221
15P-H002	-010	502 01	A	74A750201
15P-H002	-010	503 01	B	74A750301
15P-K010	-010	503 01	B	74A750301
15S-H004	-070	700 27	A/B	74A770027
161K-C141	-070	700 05	A	74A770005
17CBC002	-070	700 05	A	74A770005
17CBC002	-070	705 05	B	74A770505
17CBC003	-070	700 05	A	74A770005
17CBC003	-070	705 05	B	74A770505
17CBC004	-070	700 05	A	74A770005
17CBC004	-070	705 05	B	74A770505
17CBC021	-070	700 05	A	74A770005
17CBC021	-070	705 05	B	74A770505
17CBD001	-070	700 02	A/B	74A770002
17CBD001	-070	700 04	A/B	74A770004
17CBD001	-070	705 04	B	74A770504
17CBD005	-070	700 02	A/B	74A770002
17CBD006	-070	700 02	A/B	74A770002
17CBD007	-070	700 02	A/B	74A770002
17J-J008	-010	502 02	A	74A750202
17J-J008	-010	503 02	B	74A750302
17J-U017	-040	542 01	A/B	74A754201
17J-V018	-040	552 01	A/B	74A755201
17K-C009	-070	700 05	A	74A770005
17K-C009	-070	705 05	B	74A770505
17K-C010	-070	700 05	A	74A770005
17K-C010	-070	705 05	B	74A770505
17K-C019	-070	700 05	A	74A770005
17K-C019	-070	705 05	B	74A770505
17K-F011	-070	700 06	A	74A770006
17K-F011	-070	705 06	B	74A770506
17K-F012	-070	700 06	A	74A770006
17K-F012	-070	705 06	B	74A770506
17K-F020	-070	700 06	A	74A770006
17K-F020	-070	705 06	B	74A770506
17S-U013	-070	701 23	A/B	74A770123
17S-U015	-070	701 25	A/B	74A770125
17S-V014	-070	701 24	A/B	74A770124
17S-V016	-070	701 26	A/B	74A770126
18CBH001	-010	502 01	A	74A750201
18CBH001	-010	502 13	A/B	74A750213
18CBH001	-010	503 01	B	74A750301
18J-T014	-060	602 26	A	74A760226
18J-T014	-060	603 26	B	74A760326
18K-C005	-070	700 05	A	74A770005
18K-C005	-070	705 05	B	74A770505
18K-C010	-070	705 05	B	74A770505
18K-C011	-070	700 05	A	74A770005
18K-C011	-070	705 05	B	74A770505
18P-S003	-060	612 21	A/B	74A761221

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
18P-T014	-070	702 00	A/B	74A770200
18S-S006	-070	702 00	A/B	74A770200
19CBJ001	-010	502 02	A	74A750202
19CBJ001	-010	502 12	A/B	74A750212
19CBJ001	-010	503 02	B	74A750302
19J-S013	-060	602 25	A	74A760225
19J-S013	-060	603 25	B	74A760325
19K-F005	-070	700 06	A	74A770006
19K-F005	-070	705 06	B	74A770506
19K-F007	-070	700 06	A	74A770006
19K-F007	-070	705 06	B	74A770506
19K-F010	-070	700 06	A	74A770006
19K-F010	-070	705 06	B	74A770506
19P-J003	-010	502 02	A	74A750202
19P-J003	-010	503 02	B	74A750302
19P-S013	-070	700 47	A/B	74A770047
19P-T009	-060	612 20	A/B	74A761220
19P-T012	-060	612 14	A/B	74A761214
19S-S006	-070	700 47	A/B	74A770047
19S-S006	-070	701 01	A/B	74A770101
19S-S008	-070	700 47	A/B	74A770047
19S-S008	-070	701 02	A/B	74A770102
2CBC001	-070	700 42	A	74A770042
2CBC001	-070	705 42	B	74A770542
2CBC007	-070	700 42	A	74A770042
2CBC007	-070	705 42	B	74A770542
2CRH014	-070	700 21	A/B	74A770021
2CRN006	-070	702 01	A/B	74A770201
2DSH004	-070	700 21	A/B	74A770021
2J-P015	-050	602 05	A/B	74A760205
2J-P015	-050	602 07	A/B	74A760207
2J-P015	-060	602 35	A/B	74A760235
2K-C016	-070	700 05	A	74A770005
2K-C016	-070	705 05	A/B	74A770505
2K-N005	-070	702 01	A/B	74A770201
2K-N008	-070	702 01	A/B	74A770201
2K-N009	-070	702 01	A/B	74A770201
2K-N017	-070	702 01	A/B	74A770201
2P-M010A	-060	602 26	A	74A760226
2P-M010A	-060	603 26	B	74A760326
2P-M010B	-060	602 35	A/B	74A760235
2P-N010A	-050	602 07	A/B	74A760207
2P-N010B	-050	602 07	A/B	74A760207
2P-P011	-050	602 05	A/B	74A760205
2P-P012	-050	602 05	A/B	74A760205
2S-G002	-020	532 11	A	74A753211
2S-G002	-030	533 11	B	74A753311
2S-H003	-070	700 21	A/B	74A770021
2S-P023	-050	602 05	A/B	74A760205
20A-J003	-070	700 24	A	74A770024
20A-J003	-070	705 24	B	74A770524
20CBC001	-070	700 42	A	74A770042
20CBC001	-070	705 42	B	74A770542
20CBC002	-070	700 42	A	74A770042
20CBC002	-070	705 42	B	74A770542
20J-J003	-010	502 02	A	74A750202
20J-J003	-010	503 02	B	74A750302
20J-L013	-010	503 20	B	74A750320

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
20J-L014	-010	503 02	B	74A750302
20K-D016	-070	700 04	A	74A770004
20K-D016	-070	705 04	B	74A770504
20K-L004	-010	502 02	A	74A750202
20K-L004	-010	502 14	A	74A750214
20K-L004	-010	503 02	B	74A750302
20K-L004	-010	503 20	B	74A750320
20K-L005	-010	502 02	A	74A750202
20K-L005	-010	502 14	A	74A750214
20K-L005	-010	503 02	B	74A750302
20K-L005	-010	503 20	B	74A750320
20K-L015	-010	503 02	B	74A750302
20P-E012	-010	503 14	B	74A750314
20P-J003	-070	700 24	A	74A770024
20P-J003	-070	705 24	B	74A770524
20P-K006	-010	502 14	A	74A750214
20P-L013	-010	503 14	B	74A750314
20P-L014	-070	706 20	B	74A770620
20S-CO10	-020	532 11	A	74A753211
20S-CO10	-030	533 11	B	74A753311
20S-E007	-070	706 20	B	74A770620
20S-F008	-070	706 20	B	74A770620
20S-J003	-070	700 24	A	74A770024
20S-J003	-070	705 24	B	74A770524
20S-L007	-070	701 20	A	74A770120
20S-L008	-070	701 19	A	74A770119
20S-M009	-070	701 21	A/B	74A770121
22CBC035	-070	700 42	A	74A770042
22CBC035	-070	705 42	B	74A770542
22CBC040	-070	700 05	A	74A770005
22CBC040	-070	705 05	B	74A770505
22CBC062	-070	700 05	A	74A770005
22CBC062	-070	705 05	B	74A770505
22CBC063	-070	700 05	A	74A770005
22CBC063	-070	705 05	B	74A770505
22CBC064	-070	700 05	A	74A770005
22CBC064	-070	705 05	B	74A770505
22CBC074	-070	700 05	A	74A770005
22CBC074	-070	705 05	B	74A770505
22CBC077	-070	700 05	A	74A770005
22CBC077	-070	705 05	B	74A770505
22CBC078	-070	700 05	A	74A770005
22CBC078	-070	705 05	B	74A770505
22CBC079	-070	700 05	A	74A770005
22CBC079	-070	705 05	B	74A770505
22CBC080	-070	700 05	A	74A770005
22CBC080	-070	705 05	B	74A770505
22CBC081	-070	700 05	A	74A770005
22CBC081	-070	705 05	B	74A770505
22CBC082	-070	700 05	A	74A770005
22CBC082	-070	705 05	B	74A770505
22CBC106	-070	700 05	A	74A770005
22CBC106	-070	705 05	B	74A770505
22CBD020	-070	700 02	A/B	74A770002
22CBD020	-070	700 04	A/B	74A770004
22CBD020	-070	705 04	B	74A770504
22CBD034	-070	700 02	A/B	74A770002
22CBD036	-070	700 02	A/B	74A770002

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
22CBD036	-070	700 04	A/B	74A770004
22CBD036	-070	705 04	B	74A770504
22CBD037	-070	700 04	A/B	74A770004
22CBD037	-070	705 04	B	74A770504
22CBD052	-070	700 02	A/B	74A770002
22CBD053	-070	700 02	A/B	74A770002
22CBD054	-070	700 02	A/B	74A770002
22CBD057	-070	700 02	A/B	74A770002
22CBD057	-070	700 04	A/B	74A770004
22CBD057	-070	705 04	B	74A770504
22CBD059	-070	700 02	A/B	74A770002
22CBD060	-070	700 02	A/B	74A770002
22CBD061	-070	700 02	A/B	74A770002
22CBD070	-070	700 02	A/B	74A770002
22CBD070	-070	700 04	A/B	74A770004
22CBD070	-070	705 04	B	74A770504
22CBD071	-070	700 02	A/B	74A770002
22CBD071	-070	700 04	A/B	74A770004
22CBD071	-070	705 04	B	74A770504
22CBD094	-070	700 10	A/B	74A770010
22CBD104	-070	700 10	A/B	74A770010
22CBD173	-070	700 04	A	74A770004
22CBD173	-070	705 04	B	74A770504
22J-A090	-070	700 09	A/B	74A770009
22J-C108	-020	532 11	A	74A753211
22J-C108	-030	533 11	B	74A753311
22J-D096	-020	532 18	A	74A753218
22J-D096	-030	533 18	B	74A753318
22J-E098	-020	532 17	A	74A753217
22J-E098	-030	533 17	B	74A753317
22J-F096	-020	532 18	A	74A753218
22J-F096	-030	533 18	B	74A753318
22J-K171	-010	503 01	B	74A750301
22J-M099	-040	542 11	A/B	74A754211
22J-S027	-060	612 22	A/B	74A761222
22J-S030	-060	612 10	A/B	74A761210
22J-S030	-070	702 00	A/B	74A770200
22K-C016	-070	700 05	A	74A770005
22K-C016	-070	705 05	A	74A770505
22K-C042	-070	700 05	A	74A770005
22K-C042	-070	705 05	B	74A770505
22K-C043	-070	700 05	A	74A770005
22K-C043	-070	705 05	A/B	74A770505
22K-C065	-070	700 05	A	74A770005
22K-C065	-070	705 05	B	74A770505
22K-C072	-070	700 05	A	74A770005
22K-C072	-070	705 05	B	74A770505
22K-C075	-070	700 05	A	74A770005
22K-C075	-070	705 05	B	74A770505
22K-C083	-070	700 05	A	74A770005
22K-C083	-070	705 05	B	74A770505
22K-C085	-070	700 05	A	74A770005
22K-C085	-070	705 05	B	74A770505
22K-C103	-070	700 05	A	74A770005
22K-C103	-070	705 05	B	74A770505
22K-C109	-070	700 05	A	74A770005
22K-C109	-070	705 05	B	74A770505
22K-C111	-070	705 05	B	74A770505

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
22K-C112	-070	705 05	B	74A770505
22K-D055	-020	532 11	A	74A753211
22K-D055	-020	532 12	A	74A753212
22K-D055	-030	533 11	B	74A753311
22K-D055	-030	533 12	B	74A753312
22K-D168	-070	700 04	A	74A770004
22K-D168	-070	705 04	B	74A770504
22K-D169	-070	705 04	B	74A770504
22K-E001	-070	700 07	A	74A770007
22K-E001	-070	705 07	B	74A770507
22K-E038	-070	700 07	A	74A770007
22K-E038	-070	705 07	B	74A770507
22K-E039	-070	700 07	A	74A770007
22K-E039	-070	705 07	B	74A770507
22K-E144	-070	700 07	A	74A770007
22K-E144	-070	705 07	B	74A770507
22K-E145	-070	700 07	A	74A770007
22K-E145	-070	705 07	B	74A770507
22K-E158	-070	700 07	A	74A770007
22K-E158	-070	705 07	B	74A770507
22K-E160	-070	700 07	A	74A770007
22K-E160	-070	705 07	B	74A770507
22K-E175	-070	700 07	A	74A770007
22K-E175	-070	705 07	B	74A770507
22K-F066	-070	700 06	A	74A770006
22K-F066	-070	705 06	B	74A770506
22K-F107	-070	700 06	A	74A770006
22K-F107	-070	705 06	B	74A770506
22K-N021	-070	702 01	A/B	74A770201
22K-N028	-070	702 01	A/B	74A770201
22K-N029	-070	702 01	A/B	74A770201
22K-N046	-070	702 01	A/B	74A770201
22L-D096	-070	701 59	A/B	74A770159
22L-E098	-070	701 69	A/B	74A770169
22M-A092	-070	700 09	A/B	74A770009
22P-A087	-020	532 11	A	74A753211
22P-A087	-030	533 11	B	74A753311
22P-A088	-020	532 11	A	74A753211
22P-A088	-030	533 11	B	74A753311
22P-A089	-020	532 11	A	74A753211
22P-A089	-030	533 11	B	74A753311
22P-A090	-020	532 11	A	74A753211
22P-A090	-030	533 11	B	74A753311
22P-D002A	-020	532 18	A	74A753218
22P-D002A	-030	533 18	B	74A753318
22P-D002B	-020	532 18	A	74A753218
22P-D002B	-030	533 18	B	74A753318
22P-D096	-070	701 59	A/B	74A770159
22P-E003	-020	532 18	A	74A753218
22P-E003	-030	533 18	B	74A753318
22P-E004	-020	532 18	A	74A753218
22P-E004	-030	533 18	B	74A753318
22P-E007	-020	532 18	A	74A753218
22P-E007	-030	533 18	B	74A753318
22P-E010	-020	532 18	A	74A753218
22P-E010	-030	533 18	B	74A753318
22P-E098	-020	532 17	A	74A753217
22P-E098	-030	533 17	B	74A753317

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
22P-E098	-070	701 69	A/B	74A770169
22P-F096	-070	701 59	A/B	74A770159
22P-G056	-030	532 35	A/B	74A753235
22P-G073	-020	532 06	A	74A753206
22P-G073	-030	533 06	B	74A753306
22P-G108	-030	532 35	A/B	74A753235
22P-G172	-020	532 06	A	74A753206
22P-G172	-030	533 06	B	74A753306
22P-H069	-010	502 01	A	74A750201
22P-H069	-010	503 01	B	74A750301
22P-J026	-010	502 02	A	74A750202
22P-J026	-010	503 02	B	74A750302
22P-J068	-010	502 02	A	74A750202
22P-J068	-010	503 02	B	74A750302
22P-K102	-010	502 01	A	74A750201
22P-K114	-010	503 01	B	74A750301
22P-K170	-010	502 01	A	74A750201
22P-K171	-010	502 01	A	74A750201
22P-L102	-010	503 02	B	74A750302
22P-L113	-010	503 02	B	74A750302
22P-L170	-010	503 02	B	74A750302
22P-M008	-050	602 05	A/B	74A760205
22P-M009	-050	602 05	A/B	74A760205
22P-M076	-040	542 13	A/B	74A754213
22P-M084	-040	542 11	A/B	74A754211
22P-M086	-040	542 11	A/B	74A754211
22P-M099	-040	542 13	A/B	74A754213
22P-N014	-050	602 07	A/B	74A760207
22P-N017	-050	602 07	A/B	74A760207
22P-P005	-050	602 05	A/B	74A760205
22P-P012	-050	602 05	A/B	74A760205
22P-P030	-050	602 09	A/B	74A760209
22P-R006	-050	602 05	A/B	74A760205
22P-R015A	-050	602 07	A/B	74A760207
22P-R015B	-050	602 07	A/B	74A760207
22P-R016	-050	602 07	A/B	74A760207
22P-R110	-050	602 07	A/B	74A760207
22P-S018	-060	612 22	A/B	74A761222
22P-S019	-060	612 22	A/B	74A761222
22P-S023	-060	612 22	A/B	74A761222
22P-S024	-060	612 19	A/B	74A761219
22P-S025	-060	612 10	A/B	74A761210
22P-S027	-060	612 10	A/B	74A761210
22P-T022	-060	612 13	A/B	74A761213
22R-E148	-070	700 07	A	74A770007
22R-E148	-070	705 07	B	74A770507
22R-J047	-070	700 16	A/B	74A770016
22S-A091	-070	700 09	A/B	74A770009
22S-A105	-070	700 09	A/B	74A770009
22S-J044	-070	700 16	A/B	74A770016
22S-J045	-070	700 16	A/B	74A770016
22S-J048	-070	700 16	A/B	74A770016
22S-J058	-070	700 32	A/B	74A770032
22S-J095	-010	502 02	A	74A750202
22S-J095	-010	503 02	B	74A750302
22S-L115	-070	705 53	B	74A770553
22S-P032	-050	602 05	A/B	74A760205
22S-P051	-070	702 00	A/B	74A770200

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
23CBD001	-070	700 02	A/B	74A770002
23CBD001	-070	700 04	A/B	74A770004
23CBD001	-070	705 04	B	74A770504
23P-B002	-020	532 16	A	74A753216
23P-B002	-030	533 16	B	74A753316
23P-B003	-020	532 16	A	74A753216
23P-B003	-030	533 16	B	74A753316
24CBC018	-070	700 42	A	74A770042
24CBC018	-070	705 42	B	74A770542
24CBD001	-070	700 10	A/B	74A770010
24K-E019	-070	700 07	A	74A770007
24K-E019	-070	705 07	B	74A770507
24K-E020	-070	700 07	A	74A770007
24K-E020	-070	705 07	B	74A770507
24K-N014	-070	702 01	A/B	74A770201
24K-N015	-070	702 01	A/B	74A770201
24P-M002	-050	602 05	A/B	74A760205
24P-N006	-060	602 25	A	74A760225
24P-N006	-060	603 25	B	74A760325
24P-N021	-060	602 25	A	74A760225
24P-N021	-060	603 25	B	74A760325
24P-P003	-050	602 05	A/B	74A760205
24P-P005	-060	602 26	A	74A760226
24P-P005	-060	603 26	B	74A760326
24P-P007	-060	602 26	A	74A760226
24P-P007	-060	603 26	B	74A760326
24P-P011	-060	602 31	A/B	74A760231
24P-R004	-060	602 25	A	74A760225
24P-R004	-060	603 25	B	74A760325
24P-S009	-060	612 19	A/B	74A761219
24P-T008	-060	612 10	A/B	74A761210
24P-T010	-060	612 13	A/B	74A761213
25CBC001	-070	700 05	A	74A770005
25CBC001	-070	705 05	B	74A770505
25CBC003	-070	705 42	B	74A770542
25P-H002	-010	502 01	A	74A750201
25P-H002	-010	503 01	B	74A750301
25P-K004	-010	503 01	B	74A750301
28CBC001	-070	700 05	A	74A770005
28CBC001	-070	705 05	B	74A770505
28CBC003	-070	700 05	A	74A770005
28CBC003	-070	705 05	B	74A770505
28CBC005	-070	700 05	A	74A770005
28CBC005	-070	705 05	B	74A770505
28CBD002	-070	700 02	A/B	74A770002
28CBD004	-070	700 02	A/B	74A770002
28CBD007	-070	700 02	A/B	74A770002
28CBD007	-070	700 04	A/B	74A770004
28CBD007	-070	705 04	B	74A770504
28E-A013	-020	522 03	A/B	74A752203
28E-A021	-020	522 03	A/B	74A752203
28E-B014	-020	522 03	A/B	74A752203
28E-B022	-020	522 03	A/B	74A752203
28E-E019	-020	532 19	A	74A753219
28E-E019	-030	533 19	B	74A753319
28K-C009	-070	700 05	A	74A770005
28K-C009	-070	705 05	B	74A770505
28K-C011	-070	700 05	A	74A770005

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
28K-C011	-070	705 05	B	74A770505
28K-C020	-070	700 05	A	74A770005
28K-C020	-070	705 05	B	74A770505
28K-F010	-070	700 06	A	74A770006
28K-F010	-070	705 06	B	74A770506
28K-F012	-070	700 06	A	74A770006
28K-F012	-070	705 06	B	74A770506
28P-A017	-020	522 03	A/B	74A752203
28P-B015	-020	522 03	A/B	74A752203
28P-B016	-020	522 03	A/B	74A752203
28P-B018	-020	522 03	A/B	74A752203
28S-J008	-070	700 16	A/B	74A770016
3CBC012	-070	700 42	A	74A770042
3CBC012	-070	705 42	B	74A770542
3CBC021	-070	700 05	A	74A770005
3CBC021	-070	705 05	B	74A770505
3CBC025	-070	700 05	A	74A770005
3CBC025	-070	705 05	B	74A770505
3CBC038	-070	700 05	A	74A770005
3CBC038	-070	705 05	B	74A770505
3CBC039	-070	700 05	A	74A770005
3CBC039	-070	705 05	B	74A770505
3CBC040	-070	700 05	A	74A770005
3CBC040	-070	705 05	B	74A770505
3CBD029	-070	700 02	A/B	74A770002
3CBD029	-070	700 04	A/B	74A770004
3CBD029	-070	705 04	B	74A770504
3CBD041	-070	700 02	A/B	74A770002
3CBD042	-070	700 02	A/B	74A770002
3CBD043	-070	700 02	A/B	74A770002
3CBD052	-070	700 10	A/B	74A770010
3CBD062	-070	700 04	A/B	74A770004
3CBD076	-070	700 10	A/B	74A770010
3CBD077	-070	700 10	A/B	74A770010
3J-M028	-060	602 26	A	74A760226
3J-M028	-060	603 26	B	74A760326
3J-N033	-060	602 25	A	74A760225
3J-N033	-060	603 25	B	74A760325
3K-C019	-070	700 05	A	74A770005
3K-C019	-070	705 05	B	74A770505
3K-C020	-070	700 05	A	74A770005
3K-C020	-070	705 05	B	74A770505
3K-N004	-070	702 01	A/B	74A770201
3K-N005	-070	702 01	A/B	74A770201
3K-N013	-070	702 01	A/B	74A770201
3K-N014	-070	702 01	A/B	74A770201
3K-N017	-070	702 01	A/B	74A770201
3K-N018	-070	702 01	A/B	74A770201
3K-N027	-070	702 01	A/B	74A770201
3K-N032	-070	702 01	A/B	74A770201
3K-N034	-070	702 01	A/B	74A770201
3K-N035	-070	702 01	A/B	74A770201
3K-N036	-070	702 01	A/B	74A770201
3K-N037	-070	702 01	A/B	74A770201
3K-N057	-070	702 01	A/B	74A770201
3K-N058	-070	702 01	A/B	74A770201
3K-N072	-070	702 01	A/B	74A770201
3K-N073	-070	702 01	A/B	74A770201

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
3L-H023	-070	700 31	A/B	74A770031
3L-H024	-070	700 31	A/B	74A770031
3P-E079	-020	532 19	A	74A753219
3P-E079	-030	533 19	B	74A753319
3P-H001	-010	502 01	A	74A750201
3P-H001	-010	503 01	B	74A750301
3P-K002	-010	503 01	B	74A750301
3P-M008	-050	602 05	A/B	74A760205
3P-N008	-050	602 07	A/B	74A760207
3P-P006	-050	602 19	A/B	74A760219
3P-P010	-050	602 19	A/B	74A760219
3P-P055	-050	602 19	A/B	74A760219
3P-P059	-070	991 15	A/B	99115
3P-P064	-050	602 19	A/B	74A760219
3P-P095	-060	602 31	A/B	74A760231
3P-P095	-070	986 04	A/B	74R798604
3P-R007	-050	602 13	A/B	74A760213
3P-R011	-050	602 13	A/P	74A760213
3P-R056	-050	602 13	A/B	74A760213
3P-R060	-070	991 10	A/B	99110
3P-R065	-050	602 13	A/B	74A760213
3P-R096	-060	602 33	A/B	74A760233
3P-R096	-070	986 05	A/B	74R798605
3S-H003	-070	700 21	A/B	74A770021
33CBD001	-070	700 10	A/B	74A770010
33CBD003	-070	700 02	A/B	74A770002
33CBD004	-070	700 02	A/B	74A770002
33CBD005	-070	700 02	A/B	74A770002
33CBD010	-070	700 10	A/B	74A770010
33P-H011	-010	502 01	A	74A750201
33P-H011	-010	503 01	B	74A750301
33P-J002	-010	502 02	A	74A750202
33P-J002	-010	503 02	B	74A750302
33P-J007	-010	502 02	A	74A750202
33P-J007	-010	503 02	B	74A750302
33P-J008	-010	502 02	A	74A750202
33P-J008	-010	503 02	B	74A750302
33P-J009	-070	701 34	A/B	74A770134
33P-J015	-010	502 02	A	74A750202
33P-J015	-010	503 02	B	74A750302
33P-L016	-010	503 02	B	74A750302
33P-L017	-010	503 02	B	74A750302
33P-L018	-010	503 02	B	74A750302
33P-L019	-010	503 23	B	74A750323
33P-L020	-010	503 02	B	74A750302
34CBD001	-070	700 04	A/B	74A770004
34CBD001	-070	705 04	B	74A770504
34CBD002	-070	700 02	A/B	74A770002
34CBD002	-070	700 04	A/B	74A770004
34K-F005	-070	700 06	A	74A770006
34K-F005	-070	705 06	B	74A770506
34K-F008	-070	700 06	A	74A770006
34K-F008	-070	705 06	B	74A770506
34K-F009	-070	700 06	A	74A770006
34K-F009	-070	705 06	B	74A770506
34K-F010	-070	700 06	A	74A770006
34K-F010	-070	705 06	B	74A770506
34P-D011	-020	532 12	A	74A753212

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34P-D011	-030	533 12	B	74A753312
34P-G003	-020	532 13	A/B	74A753213
34P-G003	-070	943 65	A/B	74R794365
34P-P004	-060	602 31	A/B	74A760231
34S-H007	-070	700 13	A/B	74A770013
4CBC002	-070	700 42	A	74A770042
4CBC002	-070	705 42	B	74A770542
4CBD001	-070	700 10	A/B	74A770010
4CBD100	-070	700 10	A/B	74A770010
4DSH024	-070	700 11	A	74A770011
4DSH024	-070	705 11	B	74A770511
4K-N112	-070	702 01	A/B	74A770201
4K-N114	-070	702 01	A/B	74A770201
4P-P009	-050	602 19	A/B	74A760219
4P-P010	-050	602 19	A/B	74A760219
4P-P021	-050	602 09	A/B	74A760209
4P-R015	-060	602 48	A/B	74A760248
4P-R016	-050	602 13	A/B	74A760213
4P-R022	-050	602 09	A/B	74A760209
4P-R023	-060	602 33	A/B	74A760233
4P-S011	-060	602 26	A	74A760226
4P-S011	-060	603 26	B	74A760326
4P-S013	-060	602 26	A	74A760226
4P-S013	-060	603 26	B	74A760326
4P-S014	-060	602 25	A	74A760225
4P-S014	-060	603 25	B	74A760325
4P-T017	-060	602 26	A	74A760226
4P-T017	-060	603 26	B	74A760326
4P-T019	-060	602 26	A	74A760226
4P-T019	-060	603 26	B	74A760326
4P-T020	-060	602 25	A	74A760225
4P-T020	-060	603 25	B	74A760325
4P-T109A	-060	602 25	A	74A760225
4P-T109A	-060	603 25	B	74A760325
4P-T109B	-060	602 26	A	74A760226
4P-T109B	-060	603 26	B	74A760326
4P-T109C	-060	602 25	A	74A760225
4P-T109C	-060	603 25	B	74A760325
4P-T109D	-060	602 25	A	74A760225
4P-T109D	-060	603 25	B	74A760325
4S-H026	-010	502 01	A	74A750201
4S-H026	-010	503 01	B	74A750301
5A-E028	-030	533 24	B	74A753324
5A-E035	-070	701 73	A/B	74A770173
5A-E035	-070	701 74	A/B	74A770174
5A-F028	-030	532 24	A	74A753224
5A-F029	-030	532 24	A	74A753224
5A-F029	-030	533 24	B	74A753324
5A-H027	-070	700 33	A/B	74A770033
5A-S149	-070	702 00	A/B	74A770200
5A-T150	-070	702 00	A/B	74A770200
5A-U037	-040	542 14	A/B	74A754214
5A-U038	-040	542 14	A/B	74A754214
5A-U039	-040	542 14	A/B	74A754214
5A-V041	-040	552 14	A/B	74A755214
5A-V042	-040	552 14	A/B	74A755214
5A-V043	-040	552 14	A/B	74A755214
5A-Y062	-040	562 10	A/B	68A756210

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
5A-Y062	-040	562 12	A/B	68A756212
5A-Y062	-070	703 03	A/B	68A770303
5CBC001	-070	700 42	A	74A770042
5CBC001	-070	705 42	B	74A770542
5CBC002	-070	700 42	A	74A770042
5CBC002	-070	705 42	B	74A770542
5CBC003	-070	700 42	A	74A770042
5CBC003	-070	705 42	B	74A770542
5CBC016	-070	700 42	A	74A770042
5CBC016	-070	705 42	B	74A770542
5CBC023	-070	700 42	A	74A770042
5CBC023	-070	705 42	B	74A770542
5CBC050	-070	700 42	A	74A770042
5CBC050	-070	705 42	B	74A770542
5CBC054	-070	700 42	A	74A770042
5CBC054	-070	705 42	B	74A770542
5CBC101	-070	700 42	A	74A770042
5CBC101	-070	705 42	B	74A770542
5CBC115	-070	700 42	A	74A770042
5CBC115	-070	705 42	B	74A770542
5CBC148	-070	700 05	A	74A770005
5CBC148	-070	705 05	B	74A770505
5CBC153	-070	700 05	A	74A770005
5CBC153	-070	705 05	B	74A770505
5CBC157	-070	700 05	A	74A770005
5CBC157	-070	705 05	B	74A770505
5CBC162	-070	700 05	A	74A770005
5CBC162	-070	705 05	B	74A770505
5CBD044	-070	700 02	A/B	74A770002
5CBD063	-070	700 10	A/B	74A770010
5CBD064	-070	700 10	A/B	74A770010
5CBD065	-070	700 10	A/B	74A770010
5CBD066	-070	700 10	A/B	74A770010
5CPY153	-070	703 03	A/B	68A770303
5DSB008	-070	701 03	A/B	74A770103
5DSB133	-070	700 36	A/B	74A770036
5DSB134	-070	700 36	A/B	74A770036
5DSB169	-070	700 36	A/B	74A770036
5J-B019	-070	700 36	A/B	74A770036
5J-E035	-030	533 24	B	74A753324
5J-E035	-070	701 73	A/B	74A770173
5J-E035	-070	701 74	A/B	74A770174
5J-E035	-070	701 75	A/B	74A770175
5J-E035	-070	701 76	A/B	74A770176
5J-F035	-030	532 24	A	74A753224
5J-G024	-020	532 19	A	74A753219
5J-G024	-030	533 19	B	74A753319
5J-G024	-070	943 63	A/B	74R794363
5J-H027	-070	700 33	A/B	74A770033
5J-P111	-050	602 19	A/B	74A760219
5J-P136	-070	702 00	A/B	74A770200
5J-P137	-070	702 00	A/B	74A770200
5J-P145	-050	602 05	A/B	74A760205
5J-R112	-050	602 13	A/B	74A760213
5J-R120	-070	702 00	A/B	74A770200
5J-R135	-060	602 25	A	74A760225
5J-R135	-060	602 33	A/B	74A760233
5J-R135	-060	603 25	B	74A760325

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
5J-R144	-050	602 07	A/B	74A760207
5J-U036	-040	542 14	A/B	74A754214
5J-V040	-040	552 14	A/B	74A755214
5J-Y025	-040	562 10	A/B	68A756210
5J-Y025	-040	562 11	A/B	68A756211
5J-Y025	-040	562 12	A/B	68A756212
5J-Y025	-070	703 00	A/B	68A770300
5K-C052	-070	700 42	A	74A770042
5K-C052	-070	705 42	B	74A770542
5K-C068	-070	700 05	A	74A770005
5K-C068	-070	705 05	B	74A770505
5K-C103	-070	700 42	A	74A770042
5K-C103	-070	705 42	B	74A770542
5K-C107	-070	700 42	A	74A770042
5K-C107	-070	705 42	B	74A770542
5K-C147	-070	700 05	A	74A770005
5K-C147	-070	700 50	A/B	74A770050
5K-C147	-070	705 05	B	74A770505
5K-C158	-070	700 05	A	74A770005
5K-C158	-070	705 05	B	74A770505
5K-C159	-070	700 05	A	74A770005
5K-C159	-070	700 50	A/B	74A770050
5K-C159	-070	705 05	B	74A770505
5K-C161	-070	700 05	A	74A770005
5K-C161	-070	705 05	B	74A770505
5K-C163	-070	700 05	A	74A770005
5K-C163	-070	700 50	A/B	74A770050
5K-C163	-070	705 05	B	74A770505
5K-C168	-070	700 42	A	74A770042
5K-C168	-070	705 42	B	74A770542
5K-C170	-070	700 42	A	74A770042
5K-C170	-070	705 42	B	74A770542
5K-D004	-070	700 04	A	74A770004
5K-D004	-070	705 04	B	74A770504
5K-E004	-070	700 07	A	74A770007
5K-E004	-070	705 07	B	74A770507
5K-E011	-070	700 07	A	74A770007
5K-E011	-070	705 07	B	74A770507
5K-E055	-070	700 07	A	74A770007
5K-E055	-070	705 07	B	74A770507
5K-E068	-070	700 07	A	74A770007
5K-E068	-070	705 07	B	74A770507
5K-E164	-070	700 07	A	74A770007
5K-E164	-070	705 07	B	74A770507
5K-E165	-070	700 07	A	74A770007
5K-E165	-070	705 07	B	74A770507
5K-N154	-070	702 01	A/B	74A770201
5K-N155	-070	702 01	A/B	74A770201
5L-E171	-070	701 75	A/B	74A770175
5L-F160	-070	701 74	A/B	74A770174
5L-P119	-070	702 00	A/B	74A770200
5L-R110	-070	702 00	A/B	74A770200
5L-R118	-070	702 00	A/B	74A770200
5L-R167	-070	702 00	A/B	74A770200
5L-Y060	-040	562 10	A/B	68A756210
5L-Y060	-040	562 12	A/B	68A756212
5L-Y060	-070	703 01	A/B	68A770301
5L-Y061	-040	562 10	A/B	68A756210

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
5L-Y061	-040	562 12	A/B	68A756212
5L-Y061	-070	703 02	A/B	68A770302
5MTF140	-070	701 29	A/B	74A770129
5MTP126	-070	702 00	A/B	74A770200
5MTP127	-070	702 00	A/B	74A770200
5MTR125	-070	702 00	A/B	74A770200
5MTR128	-070	702 00	A/B	74A770200
5MTR130	-070	702 00	A/B	74A770200
5MTT129	-070	702 00	A/B	74A770200
5ND2-V003	-040	552 04	A	74A755204
5P-B006	-020	522 04	A/B	74A752204
5P-B007	-020	522 04	A/B	74A752204
5P-B019	-020	532 16	A	74A753216
5P-B019	-030	533 16	B	74A753316
5P-D009	-020	532 12	A	74A753212
5P-D009	-030	533 12	B	74A753312
5P-E035	-030	533 17	B	74A753317
5P-E035	-060	602 25	A	74A760225
5P-E053	-030	533 19	B	74A753319
5P-E053	-060	602 25	A	74A760225
5P-F014A	-020	532 18	A	74A753218
5P-F014A	-030	533 18	B	74A753318
5P-F014A	-030	533 22	B	74A753322
5P-F014B	-020	532 11	A	74A753211
5P-F014B	-020	532 19	A	74A753219
5P-F014B	-030	533 19	B	74A753319
5P-F029	-030	533 17	B	74A753317
5P-F029	-060	602 25	A	74A760225
5P-F035	-060	602 25	A	74A760225
5P-F116	-020	532 18	A	74A753218
5P-F116	-030	533 18	B	74A753318
5P-G024	-070	701 65	A/B	74A770165
5P-H013	-010	502 01	A	74A750201
5P-H013	-010	503 01	B	74A750301
5P-H027	-010	502 01	A	74A750201
5P-H027	-010	503 01	B	74A750301
5P-K015	-010	503 01	B	74A750301
5P-M036	-040	542 02	A/B	74A754202
5P-N040	-040	552 02	A/B	74A755202
5P-P069	-060	602 26	A	74A760226
5P-P069	-060	603 26	B	74A760326
5P-P071	-050	602 19	A/B	74A760219
5P-P072	-060	602 43	A/B	74A760243
5P-P102	-050	602 05	A/B	74A760205
5P-P113	-050	602 19	A/B	74A760219
5P-P136	-060	602 26	A	74A760226
5P-P136	-060	603 26	B	74A760326
5P-P137	-060	602 26	A	74A760226
5P-P137	-060	603 26	B	74A760326
5P-P145	-060	602 43	A/B	74A760243
5P-P151	-060	602 31	A/B	74A760231
5P-P152	-060	602 31	A/B	74A760231
5P-R030	-060	602 25	A	74A760225
5P-R030	-060	603 25	B	74A760325
5P-R031	-060	602 25	A	74A760225
5P-R031	-060	603 25	B	74A760325
5P-R032	-060	602 25	A	74A760225
5P-R032	-060	603 25	B	74A760325

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
5P-R033	-060	602 25	A	74A760225
5P-R033	-060	603 25	B	74A760325
5P-R034	-060	602 25	A	74A760225
5P-R034	-060	603 25	B	74A760325
5P-R070	-060	602 42	A/B	74A760242
5P-R114	-050	602 13	A/B	74A760213
5P-R120	-060	602 25	A	74A760225
5P-R120	-060	603 25	B	74A760325
5P-R144	-060	602 42	A/B	74A760242
5P-T104	-060	602 25	A	74A760225
5P-T104	-060	603 25	B	74A760325
5P-T106	-060	602 25	A	74A760225
5P-T106	-060	603 25	B	74A760325
5P-Y025	-040	562 30	A/B	74A756230
5R-E056	-070	700 07	A	74A770007
5R-E056	-070	705 07	B	74A770507
5R-E057	-070	700 07	A	74A770007
5R-E057	-070	705 07	B	74A770507
5S-B010	-070	701 22	A/B	74A770122
5S-B020	-070	700 36	A/B	74A770036
5S-B021	-070	700 36	A/B	74A770036
5S-B022	-070	700 36	A/B	74A770036
5S-B141	-070	700 36	A/B	74A770036
5S-E172	-030	533 24	B	74A753324
5S-E172	-070	701 73	B	74A770173
5S-E172	-070	701 76	A/B	74A770176
5S-H005	-070	700 33	A/B	74A770033
5S-H017	-070	700 33	A/B	74A770033
5S-H018	-070	700 33	A/B	74A770033
5S-H026	-070	700 19	A/B	74A770019
5S-H067	-070	700 33	A/B	74A770033
5S-R131	-070	702 00	A/B	74A770200
5S-R132	-070	702 00	A/B	74A770200
5T-B012	-020	532 16	A	74A753216
5T-B012	-030	533 16	B	74A753316
52A-C057	-070	700 05	A	74A770005
52A-C057	-070	705 05	A/B	74A770505
52A-C057D	-070	705 05	B	74A770505
52A-C159	-070	700 42	A	74A770042
52A-C159	-070	705 42	B	74A770542
52A-C161	-070	700 50	A/B	74A770050
52A-D024	-070	700 02	A/B	74A770002
52A-D026	-070	700 04	A/B	74A770004
52A-D026	-070	705 04	B	74A770504
52A-E059	-070	700 07	A	74A770007
52A-E059	-070	705 07	B	74A770507
52A-F058	-070	700 06	A	74A770006
52A-F058	-070	705 06	B	74A770506
52A-H087	-070	700 29	A/B	74A770029
52A-H091	-070	700 19	A/B	74A770019
52A-H098	-070	700 35	A/B	74A770035
52A-J078	-070	700 16	A/B	74A770016
52A-J155	-070	700 30	A/B	74A770030
52A-L309	-070	705 53	B	74A770553
52A-N118	-070	700 05	A	74A770005
52A-N118	-070	702 01	A/B	74A770201
52A-N118B	-070	702 01	A	74A770201
52A-Y312	-070	700 46	A/B	74A770046

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52J-B021	-020	532 16	A	74A753216
52J-B021	-030	533 16	B	74A753316
52J-B023	-020	532 16	A	74A753216
52J-B023	-030	533 16	B	74A753316
52J-C022	-020	532 11	A	74A753211
52J-C022	-030	533 11	B	74A753311
52J-C051	-020	532 11	A	74A753211
52J-C051	-030	533 11	B	74A753311
52J-C057A	-070	700 05	A	74A770005
52J-C057A	-070	705 05	B	74A770505
52J-C057B	-070	700 05	A	74A770005
52J-C057B	-070	705 05	B	74A770505
52J-C057C	-070	700 05	A/B	74A770005
52J-C057C	-070	705 05	B	74A770505
52J-C057D	-070	700 05	A/B	74A770005
52J-C057D	-070	705 05	B	74A770505
52J-C057E	-070	700 05	A	74A770005
52J-C057E	-070	705 05	A/B	74A770505
52J-C057F	-070	700 05	A	74A770005
52J-C057F	-070	705 05	B	74A770505
52J-C057G	-030	533 19	B	74A753319
52J-C057G	-070	700 05	A	74A770005
52J-C057G	-070	705 05	B	74A770505
52J-C159A	-070	700 42	A	74A770042
52J-C159A	-070	705 42	B	74A770542
52J-C159B	-070	700 42	A	74A770042
52J-C159B	-070	705 42	B	74A770542
52J-C159C	-070	700 42	A	74A770042
52J-C159C	-070	705 42	B	74A770542
52J-C159D	-070	700 42	A	74A770042
52J-C159D	-070	705 42	B	74A770542
52J-C159E	-070	700 42	A	74A770042
52J-C159E	-070	705 42	B	74A770542
52J-C159F	-070	700 42	A	74A770042
52J-C159F	-070	705 42	B	74A770542
52J-C159G	-070	700 42	A	74A770042
52J-C159G	-070	705 42	B	74A770542
52J-C161	-070	700 50	A/B	74A770050
52J-D024A	-070	700 02	A/B	74A770002
52J-D024B	-070	700 02	A/B	74A770002
52J-D024C	-070	700 02	A/B	74A770002
52J-D024D	-070	700 02	A/B	74A770002
52J-D024E	-070	700 02	A/B	74A770002
52J-D026A	-070	700 04	A/B	74A770004
52J-D026A	-070	705 04	B	74A770504
52J-D026B	-070	700 04	A/B	74A770004
52J-D026B	-070	705 04	B	74A770504
52J-D026C	-070	700 04	A/B	74A770004
52J-D026C	-070	705 04	B	74A770504
52J-D026D	-070	700 04	A/B	74A770004
52J-D026D	-070	705 04	B	74A770504
52J-D092A	-070	700 10	A/B	74A770010
52J-D092B	-070	700 10	A/B	74A770010
52J-D092C	-070	700 10	A/B	74A770010
52J-E007	-020	532 17	A	74A753217
52J-E007	-030	533 17	B	74A753317
52J-E009A	-020	532 16	A	74A753216
52J-E009B	-020	532 16	A	74A753216

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52J-E010A	-020	532 19	A	74A753219
52J-E010B	-020	532 19	A	74A753219
52J-E010N	-020	532 19	A	74A753219
52J-E011	-020	532 19	A	74A753219
52J-E011	-030	533 19	B	74A753319
52J-E059	-070	700 04	A	74A770004
52J-E059	-070	700 07	A	74A770007
52J-E059	-070	705 04	B	74A770504
52J-E059	-070	705 07	B	74A770507
52J-E154	-030	533 19	B	74A753319
52J-F001	-020	532 14	A	74A753214
52J-F001	-030	533 14	B	74A753314
52J-F002A	-020	532 14	A	74A753214
52J-F002B	-020	532 14	A	74A753214
52J-F002B	-070	943 68	A/B	74R794368
52J-F003	-050	602 07	A/B	74A760207
52J-F004A	-020	532 16	A	74A753216
52J-F004A	-030	533 16	B	74A753316
52J-F004B	-020	532 16	A	74A753216
52J-F005A	-020	532 18	A	74A753218
52J-F005B	-020	532 18	A	74A753218
52J-F006	-050	602 07	A/B	74A760207
52J-F058A	-070	700 06	A	74A770006
52J-F058A	-070	705 06	B	74A770506
52J-F058B	-070	700 06	A	74A770006
52J-F058B	-070	705 06	B	74A770506
52J-F058C	-070	700 06	A	74A770006
52J-F058C	-070	705 06	B	74A770506
52J-F058D	-070	700 06	A	74A770006
52J-F058D	-070	705 06	B	74A770506
52J-F058E	-070	700 06	A	74A770006
52J-F058E	-070	705 06	B	74A770506
52J-G040	-020	532 19	A	74A753219
52J-G040	-030	533 19	B	74A753319
52J-H032	-010	502 01	A	74A750201
52J-H032	-010	503 01	B	74A750301
52J-H033	-010	502 01	A	74A750201
52J-H033	-010	503 01	B	74A750301
52J-H034	-010	502 01	A	74A750201
52J-H034	-010	503 01	B	74A750301
52J-H039	-010	502 01	A	74A750201
52J-H039	-010	503 01	B	74A750301
52J-H046	-010	502 03	A	74A750203
52J-H046	-010	503 03	B	74A750303
52J-H048	-010	502 01	A	74A750201
52J-H048	-010	503 01	B	74A750301
52J-H049	-010	502 01	A	74A750201
52J-H049	-010	503 01	B	74A750301
52J-H073	-010	502 01	A	74A750201
52J-H073	-010	503 01	B	74A750301
52J-H075	-070	700 11	A	74A770011
52J-H075	-070	705 11	B	74A770511
52J-H077A	-070	700 13	A/B	74A770013
52J-H077B	-070	700 13	A/B	74A770013
52J-H079	-070	700 21	A/B	74A770021
52J-H081	-070	700 25	A/B	74A770025
52J-H083	-010	502 01	A	74A750201
52J-H083	-010	503 01	B	74A750301

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52J-H085	-010	502 13	A/B	74A750213
52J-H087	-070	700 29	A/B	74A770029
52J-H088	-010	502 01	A	74A750201
52J-H088	-010	503 01	B	74A750301
52J-H088	-070	700 31	A/B	74A770031
52J-H089	-070	700 23	A	74A770023
52J-H089	-070	705 23	B	74A770523
52J-H091	-070	700 19	A/B	74A770019
52J-H098	-070	700 35	A/B	74A770035
52J-J008	-010	502 02	A	74A750202
52J-J008	-010	503 02	B	74A750302
52J-J028	-010	502 02	A	74A750202
52J-J028	-010	503 02	B	74A750302
52J-J028	-070	943 18	A	74R794318
52J-J029	-010	502 02	A	74A750202
52J-J029	-010	503 02	B	74A750302
52J-J038	-010	502 02	A	74A750202
52J-J038	-010	503 02	B	74A750302
52J-J042	-010	502 02	A	74A750202
52J-J042	-010	503 02	B	74A750302
52J-J053	-070	700 32	A/B	74A770032
52J-J074	-010	502 02	A	74A750202
52J-J074	-010	503 02	B	74A750302
52J-J074	-070	943 18	A	74R794318
52J-J076	-070	700 12	A/B	74A770012
52J-J078	-070	700 16	A/B	74A770016
52J-J080	-070	700 20	A/B	74A770020
52J-J086	-010	502 12	A/B	74A750212
52J-J155	-070	700 30	A/B	74A770030
52J-J156	-070	701 34	A/B	74A770134
52J-K301	-010	503 01	B	74A750301
52J-K302	-010	503 01	B	74A750301
52J-K304	-070	705 52	B	74A770552
52J-K307	-010	503 01	B	74A750301
52J-L030	-010	502 02	A	74A750202
52J-L030	-010	503 02	B	74A750302
52J-L050	-010	502 16	A	74A750216
52J-L050	-010	503 16	B	74A750316
52J-L154	-010	502 06	A	74A750206
52J-L160	-010	502 02	A	74A750202
52J-L160	-010	503 02	B	74A750302
52J-L308	-010	503 02	B	74A750302
52J-L309	-070	705 53	B	74A770553
52J-M069	-060	602 26	A	74A760226
52J-M069	-060	603 26	B	74A760326
52J-M071	-060	602 26	A	74A760226
52J-M071	-060	603 26	B	74A760326
52J-N070	-060	602 25	A	74A760225
52J-N070	-060	603 25	B	74A760325
52J-N072	-060	602 25	A	74A760225
52J-N072	-060	603 25	B	74A760325
52J-N118A	-070	702 01	A/B	74A770201
52J-N118B	-070	700 05	A	74A770005
52J-N118B	-070	702 01	A/B	74A770201
52J-P009	-060	603 26	B	74A760326
52J-P009A	-060	603 26	B	74A760326
52J-P009B	-060	603 26	B	74A760326
52J-P010	-060	603 26	B	74A760326

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52J-P010A	-060	603 26	B	74A760326
52J-P010B	-060	603 26	B	74A760326
52J-P035	-050	602 05	A/B	74A760205
52J-P103	-050	602 05	A/B	74A760205
52J-P105	-050	602 09	A/B	74A760209
52J-P110	-050	602 05	A/B	74A760205
52J-P111	-060	602 32	A/B	74A760232
52J-P112	-060	602 32	A/B	74A760232
52J-P117	-050	602 05	A/B	74A760205
52J-P119	-070	991 15	A/B	99115
52J-P123	-050	602 05	A/B	74A760205
52J-P125	-050	602 19	A/B	74A760219
52J-P157	-040	562 03	A/B	74A756203
52J-P166	-060	602 26	A	74A760226
52J-P166	-060	603 26	B	74A760326
52J-R002	-060	603 25	B	74A760325
52J-R002A	-060	603 25	B	74A760325
52J-R002B	-060	603 25	B	74A760325
52J-R004	-060	603 25	B	74A760325
52J-R004A	-060	603 25	B	74A760325
52J-R004B	-060	603 25	B	74A760325
52J-R005	-060	603 25	B	74A760325
52J-R005A	-060	603 25	B	74A760325
52J-R005B	-060	603 25	B	74A760325
52J-R036	-050	602 07	A/B	74A760207
52J-R102	-050	602 07	A/B	74A760207
52J-R104	-050	602 13	A/B	74A760213
52J-R113	-050	602 07	A/B	74A760207
52J-R114	-060	602 34	A/B	74A760234
52J-R116	-050	602 07	A/B	74A760207
52J-R120	-070	991 10	A/B	99110
52J-R124	-060	602 48	A/B	74A760248
52J-R158	-040	562 04	A/B	74A756204
52J-R163	-060	602 25	A	74A760225
52J-R163	-060	603 25	B	74A760325
52J-R164	-060	602 25	A	74A760225
52J-R164	-060	603 25	B	74A760325
52J-R165	-060	602 25	A	74A760225
52J-R165	-060	603 25	B	74A760325
52J-T108	-060	612 13	A/B	74A761213
52J-U013	-040	542 04	A/B	74A754204
52J-U015	-040	542 01	A/B	74A754201
52J-U017	-040	542 04	A/B	74A754204
52J-U019	-040	542 01	A/B	74A754201
52J-U062	-020	532 11	A	74A753211
52J-U062	-040	542 01	A/B	74A754201
52J-U062	-040	542 12	A/B	74A754212
52J-U063	-040	542 04	A/B	74A754204
52J-U150	-040	542 10	A/B	74A754210
52J-U152	-040	542 07	A/B	74A754207
52J-V012	-040	552 04	A/B	74A755204
52J-V014	-040	552 01	A/B	74A755201
52J-V016	-040	552 04	A/B	74A755204
52J-V020	-040	552 01	A/B	74A755201
52J-V067	-040	542 04	A	74A754204
52J-V067	-040	552 04	A/B	74A755204
52J-V068	-040	552 01	A/B	74A755201
52J-V068	-040	552 12	A/B	74A755212

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52J-V151	-040	552 10	A/B	74A755210
52J-V153	-040	552 07	A/B	74A755207
52J-Y312A	-070	700 46	A/B	74A770046
52J-Y312B	-070	700 46	A/B	74A770046
52K-F058C	-070	700 06	A	74A770006
52P-A034	-020	532 11	A	74A753211
52P-A034	-030	533 11	B	74A753311
52P-A034	-070	943 36	A/B	74R794336
52P-A046	-020	532 11	A	74A753211
52P-A046	-030	533 11	B	74A753311
52P-B021	-020	522 04	A/B	74A752204
52P-B023	-020	522 03	A/B	74A752203
52P-B042	-020	532 16	A	74A753216
52P-B042	-030	533 16	B	74A753316
52P-B156	-020	532 16	A	74A753216
52P-B156	-030	533 16	B	74A753316
52P-C029	-020	532 19	A	74A753219
52P-C029	-030	533 19	B	74A753319
52P-C032	-020	532 17	A	74A753217
52P-C032	-030	533 17	B	74A753317
52P-C033	-020	532 11	A	74A753211
52P-C033	-030	533 11	B	74A753311
52P-C039	-020	532 19	A	74A753219
52P-C039	-030	533 19	B	74A753319
52P-C039	-070	943 63	A/B	74R794363
52P-C057A	-030	532 25	A/B	74A753225
52P-C057B	-020	532 09	A/B	74A753209
52P-C057C	-020	532 11	A	74A753211
52P-C057C	-020	532 19	A	74A753219
52P-C057C	-030	533 19	B	74A753319
52P-C057C	-070	943 63	A/B	74R794363
52P-C057D	-020	532 11	A	74A753211
52P-C057D	-030	533 11	B	74A753311
52P-C057D	-070	943 36	A/B	74R794336
52P-C057E	-020	532 11	A	74A753211
52P-C057E	-030	533 11	B	74A753311
52P-C057E	-030	533 19	B	74A753319
52P-C057E	-070	943 36	A/B	74R794336
52P-C057F	-020	532 17	A	74A753217
52P-C057F	-030	533 17	B	74A753317
52P-C057G	-020	532 11	A	74A753211
52P-C057G	-020	532 19	A	74A753219
52P-C057G	-030	533 19	B	74A753319
52P-C057G	-070	943 17	A	74R794317
52P-C057G	-070	943 27	B	74R794327
52P-C057G	-070	943 29	A	74R794329
52P-C057G	-070	943 30	B	74R794330
52P-C085	-020	532 09	A/B	74A753209
52P-C159A	-030	532 25	A/B	74A753225
52P-C159B	-020	532 09	A/B	74A753209
52P-C159C	-030	532 23	A/B	74A753223
52P-C159D	-030	532 23	A/B	74A753223
52P-C159E	-020	532 11	A	74A753211
52P-C159E	-030	533 11	B	74A753311
52P-C159F	-020	532 02	A	74A753202
52P-C159F	-020	532 11	A	74A753211
52P-C159F	-030	533 02	B	74A753302
52P-C159F	-030	533 11	B	74A753311

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-C159F	-070	943 36	A/B	74R794336
52P-C159G	-020	532 11	A	74A753211
52P-C159G	-030	533 11	B	74A753311
52P-C161	-020	532 11	A	74A753211
52P-C161	-030	533 11	B	74A753311
52P-C161	-070	943 36	A/B	74R794336
52P-D008	-020	532 12	A	74A753212
52P-D008	-030	533 12	B	74A753312
52P-D024A	-030	532 29	A/B	74A753229
52P-D024B	-020	532 12	A	74A753212
52P-D024B	-030	532 37	A/B	74A753237
52P-D024B	-030	533 12	B	74A753312
52P-D024C	-020	532 14	A	74A753214
52P-D024C	-030	533 14	B	74A753314
52P-D024D	-020	532 12	A	74A753212
52P-D024D	-030	533 12	B	74A753312
52P-D024D	-030	533 19	B	74A753319
52P-D024D	-070	943 17	A	74R794317
52P-D024D	-070	943 29	A	74R794329
52P-D024E	-020	532 12	A	74A753212
52P-D024E	-030	533 12	B	74A753312
52P-D026	-020	532 12	A	74A753212
52P-D026	-030	533 12	B	74A753312
52P-D026A	-020	532 12	A	74A753212
52P-D026A	-030	532 29	A/B	74A753229
52P-D026A	-030	533 12	B	74A753312
52P-D026A	-070	943 17	A	74R794317
52P-D026A	-070	943 27	B	74R794327
52P-D026B	-020	532 08	A/B	74A753208
52P-D026C	-020	532 12	A	74A753212
52P-D026C	-020	532 14	A	74A753214
52P-D026C	-030	533 12	B	74A753312
52P-D026C	-030	533 14	B	74A753314
52P-D026C	-070	943 29	A	74R794329
52P-D026C	-070	943 30	B	74R794330
52P-D026C	-070	943 68	A/B	74R794368
52P-D026C	-070	943 69	A/B	74R794369
52P-D026D	-020	532 12	A	74A753212
52P-D026D	-020	532 16	A	74A753216
52P-D026D	-030	533 12	B	74A753312
52P-D026D	-070	943 40	A/B	74R794340
52P-D028	-020	532 11	A	74A753211
52P-D028	-020	532 12	A	74A753212
52P-D028	-030	533 11	B	74A753311
52P-D028	-030	533 12	B	74A753312
52P-D028	-070	943 17	A	74R794317
52P-D028	-070	943 29	A	74R794329
52P-D029	-020	532 16	A	74A753216
52P-D029	-030	533 16	B	74A753316
52P-D038	-020	532 14	A	74A753214
52P-D038	-030	533 14	B	74A753314
52P-D086	-030	532 37	A/B	74A753237
52P-D092A	-030	532 36	A/B	74A753236
52P-D092B	-020	532 14	A	74A753214
52P-D092B	-030	533 14	B	74A753314
52P-D092C	-020	532 12	A	74A753212
52P-D092C	-030	533 12	B	74A753312
52P-E007	-050	602 05	A/B	74A760205

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-E009	-060	602 26	A	74A760226
52P-E009A	-030	533 16	B	74A753316
52P-E009A	-060	602 26	A	74A760226
52P-E009B	-030	533 16	B	74A753316
52P-E009B	-060	602 26	A	74A760226
52P-E010	-060	602 26	A	74A760226
52P-E010A	-030	533 19	B	74A753319
52P-E010A	-060	602 26	A	74A760226
52P-E010B	-030	533 19	B	74A753319
52P-E010B	-060	602 26	A	74A760226
52P-E011	-050	602 05	A/B	74A760205
52P-E059	-020	532 17	A	74A753217
52P-E059	-030	533 17	B	74A753317
52P-E059	-070	943 63	A/B	74R794363
52P-E154	-030	533 15	B	74A753315
52P-E307	-030	533 19	B	74A753319
52P-F001	-050	602 07	A/B	74A760207
52P-F002	-060	602 25	A	74A760225
52P-F002A	-030	533 14	B	74A753314
52P-F002A	-060	602 25	A	74A760225
52P-F002B	-030	533 14	B	74A753314
52P-F002B	-060	602 25	A	74A760225
52P-F002B	-070	943 69	A/B	74R794369
52P-F003	-020	532 16	A	74A753216
52P-F003	-030	533 16	B	74A753316
52P-F004	-060	602 25	A	74A760225
52P-F004A	-030	533 16	B	74A753316
52P-F004A	-060	602 25	A	74A760225
52P-F004B	-020	532 16	A	74A753216
52P-F004B	-030	533 16	B	74A753316
52P-F004B	-060	602 25	A	74A760225
52P-F005	-060	602 25	A	74A760225
52P-F005A	-030	533 18	B	74A753318
52P-F005A	-030	533 22	B	74A753322
52P-F005A	-060	602 25	A	74A760225
52P-F005B	-030	533 18	B	74A753318
52P-F005B	-030	533 22	B	74A753322
52P-F005B	-060	602 25	A	74A760225
52P-F006	-020	532 18	A	74A753218
52P-F006	-030	533 18	B	74A753318
52P-F030	-020	532 18	A	74A753218
52P-F030	-030	533 18	B	74A753318
52P-F057F	-030	533 17	B	74A753317
52P-F058A	-020	532 14	A	74A753214
52P-F058A	-030	533 14	B	74A753314
52P-F058B	-020	532 12	A	74A753212
52P-F058B	-030	533 12	B	74A753312
52P-F058C	-020	532 12	A	74A753212
52P-F058C	-020	532 16	A	74A753216
52P-F058C	-030	533 12	B	74A753312
52P-F058C	-030	533 16	B	74A753316
52P-F058D	-020	532 14	A	74A753214
52P-F058D	-030	533 14	B	74A753314
52P-F058E	-020	532 12	A	74A753212
52P-F058E	-030	533 12	B	74A753312
52P-F160	-020	532 16	A	74A753216
52P-F160	-030	533 16	B	74A753316
52P-F308	-030	533 16	B	74A753316

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-F308	-070	943 27	B	74R794327
52P-F308	-070	943 30	B	74R794330
52P-G022	-020	532 13	A/B	74A753213
52P-G022	-070	701 13	A/B	74A770113
52P-G022	-070	701 14	A/B	74A770114
52P-G022	-070	943 65	A/B	74R794365
52P-G051	-020	532 06	A	74A753206
52P-G051	-030	533 06	B	74A753306
52P-G051	-070	701 11	A/B	74A770111
52P-H075	-010	502 01	A	74A750201
52P-H075	-010	503 01	B	74A750301
52P-H077A	-010	502 01	A	74A750201
52P-H077A	-010	503 01	B	74A750301
52P-H077B	-010	502 01	A	74A750201
52P-H077B	-010	503 01	B	74A750301
52P-H079	-010	502 01	A	74A750201
52P-H079	-010	503 01	B	74A750301
52P-H081	-010	502 01	A	74A750201
52P-H081	-010	503 01	B	74A750301
52P-H083	-070	700 27	A/B	74A770027
52P-H084	-010	502 01	A	74A750201
52P-H084	-010	503 01	B	74A750301
52P-H087	-010	502 01	A	74A750201
52P-H087	-010	503 01	B	74A750301
52P-H088	-010	502 01	A	74A750201
52P-H088	-010	503 01	B	74A750301
52P-H088	-070	700 31	A/B	74A770031
52P-H089	-010	502 01	A	74A750201
52P-H089	-010	503 01	B	74A750301
52P-H091	-010	502 01	A	74A750201
52P-H091	-010	503 01	B	74A750301
52P-H098	-010	502 03	A	74A750203
52P-H098	-010	503 03	B	74A750303
52P-J053	-010	502 02	A	74A750202
52P-J053	-010	503 02	B	74A750302
52P-J076	-010	502 02	A	74A750202
52P-J076	-010	503 02	B	74A750302
52P-J078	-010	502 02	A	74A750202
52P-J078	-010	503 02	B	74A750302
52P-J080	-010	502 02	A	74A750202
52P-J080	-010	503 02	B	74A750302
52P-J155	-010	502 02	A	74A750202
52P-J155	-010	503 02	B	74A750302
52P-K303	-010	503 01	B	74A750301
52P-K304	-010	503 01	B	74A750301
52P-K305	-010	503 01	B	74A750301
52P-L050	-010	502 06	A	74A750206
52P-L050	-030	533 15	B	74A753315
52P-L154	-010	502 02	A	74A750202
52P-L309	-010	503 02	B	74A750302
52P-M069	-040	542 02	A/B	74A754202
52P-M071	-040	542 02	A/B	74A754202
52P-N070	-040	552 02	A/B	74A755202
52P-N072	-040	552 02	A/B	74A755202
52P-N118A	-060	602 25	A	74A760225
52P-N118A	-060	603 25	B	74A760325
52P-N118B	-050	602 07	A/B	74A760207
52P-N118B	-060	602 25	A	74A760225

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-N118B	-060	602 35	A/B	74A760235
52P-N118B	-060	603 25	B	74A760325
52P-P035	-040	562 03	A/B	74A756203
52P-P035	-070	701 15	A/B	74A770115
52P-P064A	-050	602 11	A/B	74A760211
52P-P064B	-060	602 31	A/B	74A760231
52P-P064B	-070	986 22	A	74R798622
52P-P064B	-070	986 25	A	74R798625
52P-P066B	-070	986 22	A	74R798622
52P-P103	-050	602 09	A/B	74A760209
52P-P105	-050	602 19	A/B	74A760219
52P-P110	-060	602 31	A/B	74A760231
52P-P111	-060	602 31	A/B	74A760231
52P-P117	-060	602 31	A/B	74A760231
52P-P117	-070	986 04	A/B	74R798604
52P-P119	-050	602 19	A/B	74A760219
52P-P123	-060	602 46	A/B	74A760246
52P-P125	-060	602 46	A/B	74A760246
52P-P157	-040	562 01	A/B	74A756201
52P-P157	-070	701 16	A/B	74A770116
52P-P157	-070	701 55	A/B	74A770155
52P-P163	-060	602 26	A	74A760226
52P-P163	-060	603 26	B	74A760326
52P-P164	-050	602 05	A/B	74A760205
52P-P165	-060	602 26	A	74A760226
52P-P165	-060	603 26	B	74A760326
52P-R036	-040	562 04	A/B	74A756204
52P-R036	-070	701 17	A/B	74A770117
52P-R065	-050	602 07	A/B	74A760207
52P-R066A	-050	602 12	A/B	74A760212
52P-R066B	-060	602 33	A/B	74A760233
52P-R066B	-070	986 26	A	74R798626
52P-R102	-050	602 09	A/B	74A760209
52P-R104	-050	602 09	A/B	74A760209
52P-R113	-060	602 33	A/B	74A760233
52P-R113	-070	986 12	A/B	74R798612
52P-R114	-060	602 33	A/B	74A760233
52P-R116	-060	602 33	A/B	74A760233
52P-R116	-070	986 05	A/B	74R798605
52P-R116	-070	986 12	A/B	74R798612
52P-R120	-050	602 13	A/B	74A760213
52P-R124	-060	602 33	A/B	74A760233
52P-R158	-040	562 02	A/B	74A756202
52P-R158	-070	701 18	A/B	74A770118
52P-R158	-070	701 56	A/B	74A770156
52P-R166	-050	602 07	A/B	74A760207
52P-S055A	-060	612 19	A/B	74A761219
52P-S055B	-060	612 19	A/B	74A761219
52P-S055C	-050	602 17	A/B	74A760217
52P-S112	-060	612 19	A/B	74A761219
52P-T056A	-060	612 13	A/B	74A761213
52P-T056B	-060	612 13	A/B	74A761213
52P-T056C	-050	602 18	A/B	74A760218
52P-T108	-060	602 25	A	74A760225
52P-T108	-060	603 25	B	74A760325
52P-U013	-060	602 26	A	74A760226
52P-U013	-060	603 26	B	74A760326
52P-U015	-060	602 26	A	74A760226

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-U015	-060	603 26	B	74A760326
52P-U017	-060	602 26	A	74A760226
52P-U017	-060	603 26	B	74A760326
52P-U019	-060	602 26	A	74A760226
52P-U019	-060	603 26	B	74A760326
52P-U045A	-070	986 23	A	74R798623
52P-U045B	-070	986 23	A	74R798623
52P-U150	-040	542 03	A/B	74A754203
52P-U152	-040	542 03	A/B	74A754203
52P-V012	-060	602 25	A	74A760225
52P-V012	-060	603 25	B	74A760325
52P-V014	-060	602 25	A	74A760225
52P-V014	-060	603 25	B	74A760325
52P-V016	-060	602 25	A	74A760225
52P-V016	-060	603 25	B	74A760325
52P-V020	-060	602 25	A	74A760225
52P-V020	-060	603 25	B	74A760325
52P-V044A	-070	986 24	A	74R798624
52P-V044B	-070	986 24	A	74R798624
52P-V151	-040	552 03	A/B	74A755203
52P-V151	-040	552 10	B	74A755210
52P-V153	-040	552 03	A/B	74A755203
52P-W018	-040	562 05	A/B	74A756205
52P-W018	-040	562 14	A/B	74A756214
52P-W018	-070	943 48	A/B	74R794348
52P-W018	-070	943 49	A/B	74R794349
52S-P106	-070	991 15	A/B	99115
52S-P107	-070	991 15	A/B	99115
52S-R100	-070	991 10	A/B	99110
52S-R101	-070	991 10	A/B	99110
52TBC057	-070	705 05	B	74A770505
52TBC159	-070	700 42	A	74A770042
52TBC159	-070	705 42	B	74A770542
52TBE059	-070	700 07	A	74A770007
52TBE059	-070	705 07	B	74A770507
52TBF058	-070	700 06	A	74A770006
52TBF058	-070	705 06	B	74A770506
52TBF058A	-070	700 06	A	74A770006
52TBF058A	-070	705 06	B	74A770506
52TBF058B	-070	700 06	A	74A770006
52TBF058B	-070	705 06	B	74A770506
52TBH075	-070	700 11	A	74A770011
52TBH075	-070	705 11	B	74A770511
52TBH091	-070	700 19	A/B	74A770019
52TBH095	-070	700 29	A/B	74A770029
52TBH096	-070	700 29	A/B	74A770029
52TBN118A	-070	702 01	A/B	74A770201
52TBN118B	-070	702 01	A/B	74A770201
60CBC003	-070	700 42	A	74A770042
60CBC003	-070	705 42	B	74A770542
60CBC004	-070	700 42	A	74A770042
60CBC004	-070	705 42	B	74A770542
60CBC005	-070	700 42	A	74A770042
60CBC005	-070	705 42	B	74A770542
60CBC006	-070	700 42	A	74A770042
60CBC006	-070	705 42	B	74A770542
60CBC020	-070	700 42	A	74A770042
60CBC020	-070	705 42	B	74A770542

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
60CBC021	-070	700 42	A	74A770042
60CBC021	-070	705 42	B	74A770542
60CBC022	-070	700 42	A	74A770042
60CBC022	-070	705 42	B	74A770542
60CBC023	-070	700 42	A	74A770042
60CBC023	-070	705 42	B	74A770542
60CBC025	-070	700 42	A	74A770042
60CBC025	-070	705 42	B	74A770542
60CBC026	-070	700 42	A	74A770042
60CBC026	-070	705 42	B	74A770542
60J-A001A	-020	532 11	A	74A753211
60J-A001A	-030	533 11	B	74A753311
60J-A001B	-020	532 11	A	74A753211
60J-A001B	-030	533 11	B	74A753311
60J-A001C	-020	532 11	A	74A753211
60J-A001C	-030	533 11	B	74A753311
60J-A001D	-020	532 11	A	74A753211
60J-A001D	-030	533 11	B	74A753311
60J-A001E	-020	520 05	A	74A752005
60J-A001E	-020	521 05	B	74A752105
60J-A001F	-020	532 11	A	74A753211
60J-A001F	-030	533 11	B	74A753311
60J-E007	-020	520 05	A	74A752005
60J-H017	-010	502 03	A	74A750203
60J-H017	-010	503 03	B	74A750303
60J-H018	-010	502 03	A	74A750203
60J-H018	-010	503 03	B	74A750303
60J-U012	-040	540 01	A/B	74A754001
60J-V015	-040	550 01	A/B	74A755001
60P-A017	-020	532 11	A	74A753211
60P-A017	-030	533 11	B	74A753311
60P-A018	-020	532 11	A	74A753211
60P-A018	-030	533 11	B	74A753311
60P-E007	-020	521 05	B	74A752105
60P-U013	-040	540 01	A/B	74A754001
60P-V016	-040	550 01	A/B	74A755001
60S-J002	-070	700 20	A/B	74A770020
60S-J024	-070	700 12	A/B	74A770012
61A-P190	-070	986 22	A	74R798622
61A-P191	-070	986 22	A	74R798622
61A-Y287	-070	943 79	A/B	74R794379
61CBC048	-070	700 42	A	74A770042
61CBC048	-070	705 42	B	74A770542
61CBC049	-070	700 42	A	74A770042
61CBC049	-070	705 42	B	74A770542
61CBC050	-070	700 42	A	74A770042
61CBC050	-070	705 42	B	74A770542
61CBC051	-070	700 05	A	74A770005
61CBC051	-070	705 05	B	74A770505
61CBC052	-070	700 05	A	74A770005
61CBC052	-070	705 05	B	74A770505
61CBC055	-070	700 05	A	74A770005
61CBC055	-070	705 05	B	74A770505
61CBC056	-070	700 05	A	74A770005
61CBC056	-070	705 05	B	74A770505
61CBC057	-070	700 05	A	74A770005
61CBC057	-070	705 05	B	74A770505
61CBC058	-070	700 05	A	74A770005

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61CBC058	-070	705 05	B	74A770505
61CBC059	-070	700 05	A	74A770005
61CBC059	-070	705 05	B	74A770505
61CBC060	-070	700 05	A	74A770005
61CBC060	-070	705 05	B	74A770505
61CBC061	-070	700 05	A	74A770005
61CBC061	-070	705 05	B	74A770505
61CBC062	-070	700 05	A	74A770005
61CBC062	-070	705 05	B	74A770505
61CBC063	-070	700 05	A	74A770005
61CBC063	-070	705 05	B	74A770505
61CBC064	-070	700 05	A	74A770005
61CBC064	-070	705 05	B	74A770505
61CBC065	-070	700 05	A	74A770005
61CBC065	-070	705 05	B	74A770505
61CBC066	-070	700 05	A	74A770005
61CBC066	-070	705 05	B	74A770505
61CBC091	-070	700 42	A	74A770042
61CBC091	-070	705 42	B	74A770542
61CBC092	-070	700 42	A	74A770042
61CBC092	-070	705 42	B	74A770542
61CBC144	-070	700 05	A	74A770005
61CBC144	-070	705 05	B	74A770505
61CBC145	-070	700 05	A	74A770005
61CBC145	-070	705 05	B	74A770505
61CBC154	-070	700 05	A	74A770005
61CBC154	-070	705 05	B	74A770505
61CBC242	-070	700 42	A	74A770042
61CBC242	-070	705 42	B	74A770542
61CBC243	-070	700 42	A	74A770042
61CBC243	-070	705 42	B	74A770542
61CBD002	-070	700 10	A/B	74A770010
61CBD003	-070	700 02	A/B	74A770002
61CBD003	-070	700 04	A/B	74A770004
61CBD004	-070	700 02	A/B	74A770002
61CBD004	-070	700 04	A/B	74A770004
61CBD005	-070	700 02	A/B	74A770002
61CBD005	-070	700 04	A/B	74A770004
61CBD006	-070	700 04	A/B	74A770004
61CBD006	-070	705 04	B	74A770504
61CBD067	-070	700 04	A/B	74A770004
61CBD067	-070	705 04	B	74A770504
61CBD068	-070	700 02	A/B	74A770002
61CBD068	-070	700 04	A/B	74A770004
61CBD069	-070	700 02	A/B	74A770002
61CBD069	-070	700 04	A/B	74A770004
61CBD070	-070	700 02	A/B	74A770002
61CBD070	-070	700 04	A/B	74A770004
61CBD071	-070	700 04	A/B	74A770004
61CBD071	-070	705 04	B	74A770504
61CBD072	-070	700 02	A/B	74A770002
61CBD072	-070	700 04	A/B	74A770004
61CBD073	-070	700 02	A/B	74A770002
61CBD073	-070	700 04	A/B	74A770004
61CBD074	-070	700 02	A/B	74A770002
61CBD074	-070	700 04	A/B	74A770004
61CBD075	-070	700 04	A/B	74A770004
61CBD075	-070	705 04	B	74A770504

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61CBD076	-070	700 02	A/B	74A770002
61CBD076	-070	700 04	A/B	74A770004
61CBD077	-070	700 02	A/B	74A770002
61CBD077	-070	700 04	A/B	74A770004
61CBD078	-070	700 02	A/B	74A770002
61CBD078	-070	700 04	A/B	74A770004
61CBD079	-070	700 04	A/B	74A770004
61CBD079	-070	705 04	B	74A770504
61CBD080	-070	700 02	A/B	74A770002
61CBD080	-070	700 04	A/B	74A770004
61CBD081	-070	700 02	A/B	74A770002
61CBD081	-070	700 04	A/B	74A770004
61CBD082	-070	700 02	A/B	74A770002
61CBD082	-070	700 04	A/B	74A770004
61CBD083	-070	700 04	A/B	74A770004
61CBD083	-070	705 04	B	74A770504
61CBD084	-070	700 02	A/B	74A770002
61CBD084	-070	700 04	A/B	74A770004
61CBD087	-070	700 02	A/B	74A770002
61CBD087	-070	700 04	A/B	74A770004
61CBD088	-070	700 02	A/B	74A770002
61CBD088	-070	700 04	A/B	74A770004
61CBD089	-070	700 02	A/B	74A770002
61CBD089	-070	700 04	A/B	74A770004
61CBD090	-070	700 04	A/B	74A770004
61CBD090	-070	705 04	B	74A770504
61CBD130	-070	700 10	A/B	74A770010
61CBD131	-070	700 10	A/B	74A770010
61CBD134	-070	700 10	A/B	74A770010
61CBD135	-070	700 10	A/B	74A770010
61CBD136	-070	700 10	A/B	74A770010
61CBD146	-070	700 04	A/B	74A770004
61CBD146	-070	705 04	B	74A770504
61CBD149	-070	700 04	A/B	74A770004
61CBD149	-070	705 04	B	74A770504
61CBD156	-070	700 02	A/B	74A770002
61CBD156	-070	700 04	A/B	74A770004
61CBD157	-070	700 02	A/B	74A770002
61CBD157	-070	700 04	A/B	74A770004
61CBD158	-070	700 02	A/B	74A770002
61CBD158	-070	700 04	A/B	74A770004
61CBD159	-070	700 04	A/B	74A770004
61CBD159	-070	705 04	B	74A770504
61CBD221	-070	700 04	A/B	74A770004
61CBD221	-070	705 04	B	74A770504
61CRY293	-070	943 79	A/B	74R794379
61CRY295	-070	943 79	A/B	74R794379
61J-A120	-020	532 11	A	74A753211
61J-A120	-030	533 11	B	74A753311
61J-D245	-020	520 08	A/B	74A752008
61J-E013	-020	530 27	A	74A753027
61J-E018	-020	530 31	A/B	74A753031
61J-E018	-070	945 42	A	74R794542
61J-E025	-020	530 28	A/B	74A753028
61J-E166	-020	530 35	A/B	74A753035
61J-E166	-070	945 41	A	74R794541
61J-E176	-070	945 43	A	74R794543
61J-F034	-020	532 20	A	74A753220

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61J-F036	-020	530 33	A	74A753033
61J-F036	-070	945 37	A	74R794537
61J-F037	-020	530 34	A	74A753034
61J-F037	-070	945 38	A	74R794538
61J-F038	-020	530 38	A	74A753038
61J-F038	-070	945 40	A	74R794540
61J-F039	-020	530 37	A	74A753037
61J-F039	-070	945 39	A	74R794539
61J-J022C	-070	700 58	A/B	74A770058
61J-J033	-010	502 10	A	74A750210
61J-J033	-010	503 10	B	74A750310
61J-J035	-010	502 03	A	74A750203
61J-J035	-010	503 03	B	74A750303
61J-J040	-010	502 03	A	74A750203
61J-J040	-010	503 03	B	74A750303
61J-K237	-070	705 43	B	74A770543
61J-L217	-070	705 54	B	74A770554
61J-P013	-050	601 13	B	74A760113
61J-P110A	-050	602 05	A/B	74A760205
61J-P110B	-050	602 05	A/B	74A760205
61J-P110B	-050	602 07	A/B	74A760207
61J-P110C	-050	600 25	A/B	74A760025
61J-R034	-060	603 30	B	74A760330
61J-R036	-050	601 19	B	74A760119
61J-R037	-050	601 18	B	74A760118
61J-R038	-050	601 20	B	74A760120
61J-R039	-050	601 17	B	74A760117
61J-R111A	-050	602 07	A/B	74A760207
61J-R111B	-050	602 07	A/B	74A760207
61J-U027	-040	542 01	A/B	74A754201
61J-U027	-070	945 45	A	74R794545
61J-U041	-040	542 04	A/B	74A754204
61J-U045	-040	542 12	A/B	74A754212
61J-V026	-040	552 01	A/B	74A755201
61J-V026	-070	945 46	A	74R794546
61J-V042	-040	552 04	A/B	74A755204
61J-V046	-040	552 12	A/B	74A755212
61J-W024	-040	562 09	A/B	74A756209
61J-W093	-040	562 05	A/B	74A756205
61J-W093	-040	562 14	A/B	74A756214
61J-W093	-070	943 49	A/B	74R794349
61J-W095A	-070	701 47	A/B	68A770147
61J-W095B	-070	701 57	A/B	74A770157
61J-W095B	-070	701 83	A/B	68A770183
61J-W095B	-070	943 78	A/B	74R794378
61J-W096	-040	562 05	A/B	74A756205
61J-W096	-040	562 14	A/B	74A756214
61J-W102	-040	562 06	A/B	74A756206
61J-W106	-040	562 08	A/B	74A756208
61J-W112	-040	562 05	A/B	74A756205
61J-W112	-040	562 14	A/B	74A756214
61J-W112	-070	943 49	A/B	74R794349
61J-W210	-070	701 47	A/B	68A770147
61J-W215	-070	701 47	A/B	68A770147
61J-W239	-070	701 47	A/B	68A770147
61J-W253	-070	701 83	A/B	68A770183
61J-W254	-070	701 83	A/B	68A770183
61J-W258	-040	562 13	A/B	74A756213

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61J-Y200A	-070	701 43	A/B/A/B	74A770143
61J-Y200A	-070	701 86	A/B	74A770186
61J-Y200B	-070	701 41	A/B/A/B	74A770141
61J-Y200B	-070	701 42	A/B/A/B	74A770142
61J-Y200B	-070	701 81	A/B	74A770181
61J-Y200B	-070	701 82	A/B	74A770182
61J-Y204	-070	701 51	A/B/A/B	74A770151
61J-Y206	-070	701 41	A/B/A/B	74A770141
61J-Y206	-070	701 42	A/B/A/B	74A770142
61J-Y206	-070	701 81	A/B	74A770181
61J-Y206	-070	701 82	A/B	74A770182
61J-Y287	-070	943 78	A/B	74R794378
61K-C121	-070	700 05	A	74A770005
61K-C121	-070	705 05	B	74A770505
61K-C122	-070	700 05	A/B	74A770005
61K-C122	-070	705 05	B	74A770505
61K-C123	-070	700 05	A/B	74A770005
61K-C123	-070	705 05	B	74A770505
61K-C124	-070	700 05	A	74A770005
61K-C124	-070	705 05	B	74A770505
61K-C132	-070	700 05	A	74A770005
61K-C132	-070	705 05	B	74A770505
61K-C133	-070	700 05	A	74A770005
61K-C133	-070	705 05	B	74A770505
61K-C141	-070	700 05	A	74A770005
61K-C141	-070	705 05	B	74A770505
61K-C142	-070	700 05	A/B	74A770005
61K-C142	-070	705 05	B	74A770505
61K-C151	-070	700 05	A	74A770005
61K-C151	-070	705 05	B	74A770505
61K-C219	-070	705 05	B	74A770505
61K-C220	-070	705 05	B	74A770505
61K-F125	-070	700 06	A	74A770006
61K-F125	-070	705 06	B	74A770506
61K-F126	-070	700 06	A	74A770006
61K-F126	-070	705 06	B	74A770506
61K-F127	-070	700 06	A	74A770006
61K-F127	-070	705 06	B	74A770506
61K-F128	-070	700 06	A	74A770006
61K-F128	-070	705 06	B	74A770506
61K-F129	-070	700 06	A	74A770006
61K-F129	-070	705 06	B	74A770506
61K-F137	-070	700 06	A	74A770006
61K-F137	-070	705 06	B	74A770506
61K-F138	-070	700 06	A	74A770006
61K-F138	-070	705 06	B	74A770506
61K-F147	-070	700 06	A	74A770006
61K-F147	-070	705 06	B	74A770506
61K-F150	-070	700 06	A	74A770006
61K-F150	-070	705 06	B	74A770506
61K-F155	-070	700 06	A	74A770006
61K-F155	-070	705 06	B	74A770506
61K-F160	-070	700 06	A	74A770006
61K-F160	-070	705 06	B	74A770506
61K-W211	-070	701 47	A/B	68A770147
61K-W224	-070	701 57	A/B	74A770157
61K-W224	-070	701 83	A/B	68A770183

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61K-W225	-070	701 57	A/B	74A770157
61K-W225	-070	701 83	A/B	68A770183
61K-W226	-070	701 57	A/B	74A770157
61K-W226	-070	701 83	A/B	68A770183
61K-W227	-070	701 57	A/B	74A770157
61K-W227	-070	701 83	A/B	68A770183
61K-W228	-070	701 57	A/B	74A770157
61K-W228	-070	701 83	A/B	68A770183
61K-W229	-070	701 57	A/B	74A770157
61K-W229	-070	701 83	A/B	68A770183
61K-W240	-070	701 47	A/B	68A770147
61K-W249	-040	562 13	A/B	74A756213
61K-W250	-040	562 13	A/B	74A756213
61K-W255	-070	701 83	A/B	68A770183
61K-W256	-070	701 83	A/B	68A770183
61K-W257	-070	701 83	A/B	68A770183
61K-W263	-070	701 83	A/B	68A770183
61K-W264	-070	701 47	A/B	68A770147
61K-Y202	-070	701 44	A/B/A/B	74A770144
61K-Y202	-070	701 85	A/B	74A770185
61K-Y288	-070	943 79	A/B	74R794379
61K-Y289	-070	943 79	A/B	74R794379
61K-Y290	-070	943 79	A/B	74R794379
61K-Y291	-070	943 79	A/B	74R794379
61K-Y292	-070	943 79	A/B	74R794379
61L-W241	-070	701 64	A/B	74A770164
61P-A020A	-020	532 11	A	74A753211
61P-A020A	-030	533 11	B	74A753311
61P-A020B	-020	532 11	A	74A753211
61P-A020B	-030	533 11	B	74A753311
61P-A246A	-020	532 11	A	74A753211
61P-A246A	-030	533 11	B	74A753311
61P-A246B	-020	532 11	A	74A753211
61P-A246B	-030	533 11	B	74A753311
61P-A246C	-020	520 08	A/B	74A752008
61P-B164	-020	532 11	A	74A753211
61P-B164	-030	533 11	B	74A753311
61P-B184	-020	532 16	A	74A753216
61P-B184	-030	533 16	B	74A753316
61P-B185	-020	532 16	A	74A753216
61P-B185	-030	533 16	B	74A753316
61P-D033	-020	532 20	A	74A753220
61P-D033	-030	533 20	B	74A753320
61P-D035	-020	530 36	A/B	74A753036
61P-D040	-020	530 32	A/B	74A753032
61P-E009A	-020	532 19	A	74A753219
61P-E009A	-030	533 19	B	74A753319
61P-E009B	-020	530 24	A/B	74A753024
61P-E013	-020	531 27	B	74A753127
61P-E013	-050	600 13	A	74A760013
61P-E018	-050	600 22	A/B	74A760022
61P-E025	-050	600 21	A/B	74A760021
61P-E047A	-020	530 24	A/B	74A753024
61P-E047B	-020	530 27	A	74A753027
61P-E047B	-020	531 27	B	74A753127
61P-E047C	-020	530 28	A/B	74A753028
61P-E166	-050	600 25	A/B	74A760025
61P-F001A	-020	532 14	A	74A753214

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61P-F001A	-030	533 14	B	74A753314
61P-F001B	-020	532 14	A	74A753214
61P-F001B	-030	533 14	B	74A753314
61P-F001B	-070	943 68	A/B	74R794368
61P-F001B	-070	943 69	A/B	74R794369
61P-F001C	-020	530 32	A/B	74A753032
61P-F001D	-020	530 33	A	74A753033
61P-F001D	-020	531 33	B	74A753133
61P-F001D	-070	945 37	A	74R794537
61P-F001E	-020	530 34	A	74A753034
61P-F001E	-020	531 34	B	74A753134
61P-F001E	-070	945 38	A	74R794538
61P-F001F	-020	530 35	A/B	74A753035
61P-F001F	-070	945 41	A	74R794541
61P-F001G	-020	530 36	A/B	74A753036
61P-F001H	-020	530 37	A	74A753037
61P-F001H	-020	531 37	B	74A753137
61P-F001H	-070	945 39	A	74R794539
61P-F001J	-020	530 38	A	74A753038
61P-F001J	-020	531 38	B	74A753138
61P-F001J	-070	945 40	A	74R794540
61P-F001K	-020	530 31	A/B	74A753031
61P-F001K	-070	945 42	A	74R794542
61P-F001M	-070	945 43	A	74R794543
61P-F010A	-020	532 14	A	74A753214
61P-F010A	-030	533 14	B	74A753314
61P-F010B	-020	532 14	A	74A753214
61P-F010B	-030	533 14	B	74A753314
61P-F034	-030	533 20	B	74A753320
61P-F034	-060	602 30	A	74A760230
61P-F036	-020	531 33	B	74A753133
61P-F036	-050	600 19	A	74A760019
61P-F036	-070	945 37	A	74R794537
61P-F037	-020	531 34	B	74A753134
61P-F037	-050	600 18	A	74A760018
61P-F038	-020	531 38	B	74A753138
61P-F038	-050	600 20	A	74A760020
61P-F039	-020	531 37	B	74A753137
61P-F039	-050	600 17	A	74A760017
61P-G165	-020	532 06	A	74A753206
61P-G165	-030	533 06	B	74A753306
61P-G244	-020	530 42	A/B	74A753042
61P-G245	-020	530 42	A/B	74A753042
61P-J022A	-010	502 10	A	74A750210
61P-J022A	-010	503 10	B	74A750310
61P-J022B	-010	502 10	A	74A750210
61P-J022B	-010	503 10	B	74A750310
61P-J022C	-010	502 10	A	74A750210
61P-J022C	-010	503 10	B	74A750310
61P-K237	-010	503 01	B	74A750301
61P-L217	-010	503 01	B	74A750301
61P-P014A	-060	602 31	A/B	74A760231
61P-P014B	-060	602 31	A/B	74A760231
61P-P014B	-070	986 22	A	74R798622
61P-P014B	-070	986 25	A	74R798625
61P-P014C	-050	602 11	A/B	74A760211
61P-P028A	-050	600 13	A	74A760013
61P-P028A	-050	601 13	B	74A760113

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61P-P028B	-050	600 15	A/B	74A760015
61P-P028C	-050	600 14	A/B	74A760014
61P-R016A	-060	602 33	A/B	74A760233
61P-R016A	-070	986 12	A/B	74R798612
61P-R016B	-060	602 33	A/B	74A760233
61P-R016B	-070	986 22	A	74R798622
61P-R016B	-070	986 26	A	74R798626
61P-R016C	-050	602 12	A/B	74A760212
61P-R162	-050	600 21	A/B	74A760021
61P-R167	-050	602 07	A/B	74A760207
61P-R168	-050	600 22	A/B	74A760022
61P-U011A	-040	542 09	A/B	74A754209
61P-U011B	-040	542 09	A/B	74A754209
61P-U021A	-040	542 15	A/B	74A754215
61P-U027	-050	600 19	A	74A760019
61P-U027	-050	601 19	B	74A760119
61P-U030A	-050	600 14	A/B	74A760014
61P-U030B	-04U	542 01	A/B	74A754201
61P-U030C	-040	542 04	A/B	74A754204
61P-U041	-050	600 18	A	74A760018
61P-U041	-050	601 18	B	74A760118
61P-U045	-060	602 30	A	74A760230
61P-U045	-060	603 30	B	74A760330
61P-U265	-070	945 45	A	74R794545
61P-V019A	-040	552 09	A/B	74A755209
61P-V019B	-040	552 09	A/B	74A755209
61P-V026	-050	600 17	A	74A760017
61P-V026	-050	601 17	B	74A760117
61P-V029A	-040	552 15	A/B	74A755215
61P-V031A	-050	600 15	A/B	74A760015
61P-V031B	-040	552 01	A/B	74A755201
61P-V031C	-040	552 04	A/B	74A755204
61P-V042	-050	600 20	A	74A760020
61P-V042	-050	601 20	B	74A760120
61P-V046	-060	602 30	A	74A760230
61P-V046	-060	603 30	B	74A760330
61P-V266	-070	945 46	A	74R794546
61P-W012A	-040	562 05	A/B	74A756205
61P-W012A	-040	562 14	A/B	74A756214
61P-W012A	-070	943 48	A/B	74R794348
61P-W012C	-040	562 05	A/B	74A756205
61P-W012C	-040	562 14	A/B	74A756214
61P-W012C	-070	943 49	A/B	74R794349
61P-W012D	-040	562 05	A/B	74A756205
61P-W012D	-040	562 14	A/B	74A756214
61P-W012D	-070	943 49	A/B	74R794349
61P-W021A	-040	542 15	A	74A754215
61P-W023A	-040	562 05	A/B	74A756205
61P-W023A	-040	562 14	A/B	74A756214
61P-W023B	-040	562 09	A/B	74A756209
61P-W023C	-040	562 05	A/B	74A756205
61P-W023C	-040	562 14	A/B	74A756214
61P-W093	-040	562 29	A/B	74A756229
61P-W093	-040	562 35	A/B	68A756235
61P-W093	-040	562 36	A/B	68A756236
61P-W093	-040	562 45	A/B	68A756245
61P-W093	-040	562 47	A/B	74A756247
61P-W094A	-040	562 05	A/B	74A756205

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61P-W094A	-040	562 14	A/B	74A756214
61P-W094B	-040	562 06	A/B	74A756206
61P-W094C	-040	562 07	A/B	74A756207
61P-W095A	-040	562 29	A/B	74A756229
61P-W095A	-040	562 35	A/B	68A756235
61P-W095B	-040	562 29	A/B	74A756229
61P-W095B	-040	562 35	A/B	68A756235
61P-W096	-040	562 27	A/B	68A756227
61P-W097A	-040	562 05	A/B	74A756205
61P-W097A	-040	562 14	A/B	74A756214
61P-W097A	-070	943 48	A/B	74R794348
61P-W097B	-040	562 07	A/B	74A756207
61P-W097E	-040	562 08	A/B	74A756208
61P-W098R	-040	562 28	A/B	74A756228
61P-W099A	-040	562 27	A/B	68A756227
61P-W102	-040	562 27	A/B	68A756227
61P-W112	-040	562 27	A/B	68A756227
61P-W112	-040	562 28	A/B	74A756228
61P-W112	-040	562 35	A/B	68A756235
61P-W112	-040	562 36	A/B	68A756236
61P-W112	-040	562 45	A/B	68A756245
61P-W112	-040	562 47	A/B	74A756247
61P-W209	-070	701 47	A/B	68A770147
61P-W212	-070	701 57	A/B	74A770157
61P-W212	-070	701 83	A/B	68A770183
61P-W213	-070	701 57	A/B	74A770157
61P-W213	-070	701 83	A/B	68A770183
61P-W214C	-070	701 47	A/B	68A770147
61P-W214C	-070	943 78	A/B	74R794378
61P-W239	-070	701 64	A/B	74A770164
61P-W251	-040	562 36	A/B	68A756236
61P-W258	-040	562 05	A/B	74A756205
61P-W258	-040	562 14	A/B	74A756214
61P-W258	-070	943 48	A/B	74R794348
61P-W271R	-040	562 45	A/B	68A756245
61P-Y096	-040	562 25	A/B	68A756225
61P-Y096	-040	562 47	A/B	74A756247
61P-Y100A	-040	562 26	A/B	74A756226
61P-Y100A	-040	562 32	A/B	74A756232
61P-Y100B	-040	562 26	A/B	74A756226
61P-Y100B	-040	562 32	A/B	74A756232
61P-Y101	-040	562 25	A/B	68A756225
61P-Y102	-040	562 26	A/B	74A756226
61P-Y102	-040	562 32	A/B	74A756232
61P-Y106	-040	562 25	A/B	68A756225
61P-Y112	-040	562 25	A/B	68A756225
61P-Y112	-040	562 26	A/B	74A756226
61P-Y112	-040	562 30	A/B	74A756230
61P-Y112	-040	562 32	A/B	74A756232
61P-Y112	-040	562 34	A/B	74A756234
61P-Y203	-070	701 41	A/B/A/B	74A770141
61P-Y203	-070	701 42	A/B/A/B	74A770142
61P-Y203	-070	701 81	A/B	74A770181
61P-Y203	-070	701 82	A/B	74A770182
61P-Y205	-070	701 41	A/B/A/B	74A770141
61P-Y205	-070	701 42	A/B/A/B	74A770142
61P-Y205	-070	701 81	A/B	74A770181

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
61P-Y205	-070	701 82	A/B	74A770182
61P-Y247A	-040	562 34	A/B	74A756234
61P-Y252	-070	701 81	A/B	74A770181
61P-Y252	-070	701 82	A/B	74A770182
61P-Y285	-040	562 47	A/B	74A756247
61P-Y287	-070	943 79	A/B	74R794379
61P-Z105A	-050	602 10	A/B	68A760210
61P-Z105B	-050	600 01	A/B	74A760001
61P-Z162	-050	600 01	A/B	74A760001
61P-Z167	-050	602 10	A/B	68A760210
61S-C163	-070	701 35	A/B	74A770135
61S-G153	-070	701 36	A/B	74A770136
61S-H007	-070	700 11	A	74A770011
61S-H007	-070	705 11	B	74A770511
61S-H008	-070	700 11	A	74A770011
61S-H008	-070	705 11	B	74A770511
61S-H032	-070	700 13	A/B	74A770013
61S-H139	-070	700 29	A/B	74A770029
61S-H152	-070	700 11	A	74A770011
61S-H152	-070	705 11	B	74A770511
61S-H177	-010	502 01	A	74A750201
61S-H177	-010	503 01	B	74A750301
61S-J140	-070	700 12	A/B	74A770012
61S-J222	-070	700 20	A/B	74A770020
61S-J223	-070	700 20	A/B	74A770020
61S-K238	-070	705 43	B	74A770543
61S-L216	-070	705 54	B	74A770554
61SQY201A	-070	701 50	A/B/A/B	74A770150
61SQY201B	-070	701 50	A/B/A/B	74A770150
61X-D161	-020	532 14	A	74A753214
61X-D161	-030	533 14	B	74A753314
61X-D161	-070	943 68	A/B	74R794368
61X-D161	-070	943 69	A/B	74R794369
62CBC001	-070	700 05	A	74A770005
62CBC001	-070	705 05	B	74A770505
62CBC002	-070	700 05	A	74A770005
62CBC002	-070	705 05	B	74A770505
62CBC003	-070	700 05	A	74A770005
62CBC003	-070	705 05	B	74A770505
62CBC004	-070	700 05	A	74A770005
62CBC004	-070	705 05	B	74A770505
62CBC005	-070	700 05	A	74A770005
62CBC005	-070	705 05	B	74A770505
62J-A030E	-020	532 11	A	74A753211
62J-A030E	-020	532 14	A	74A753214
62J-A030E	-030	533 11	B	74A753311
62J-B029E	-020	532 16	A	74A753216
62J-B029E	-030	533 16	B	74A753316
62J-J007	-010	502 01	A	74A750201
62J-J007	-010	503 01	B	74A750301
62K-C031	-070	700 05	A	74A770005

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
62K-C031	-070	705 05	B	74A770505
62K-C032	-070	700 05	A	74A770005
62K-C032	-070	705 05	B	74A770505
62P-A013A	-020	532 11	A	74A753211
62P-A013A	-030	533 11	B	74A753311
62P-A030E	-070	701 71	A/B	74A770171
62P-B010A	-020	532 16	A	74A753216
62P-B010A	-030	533 16	B	74A753316
62P-B014A	-020	522 03	A/B	74A752203
62P-B029E	-070	701 70	A/B	74A770170
62P-E006A	-020	532 16	A	74A753216
62P-E006A	-030	533 16	B	74A753316
62P-E006B	-020	532 17	A	74A753217
62P-E006B	-030	533 17	B	74A753317
62P-E006C	-020	532 16	A	74A753216
62P-E006C	-030	533 16	B	74A753316
62P-E009K	-020	532 16	A	74A753216
62P-E009K	-030	533 16	B	74A753316
62P-E009L	-020	532 16	A	74A753216
62P-E009L	-030	533 16	B	74A753316
62P-E009M	-020	532 16	A	74A753216
62P-E009M	-030	533 16	B	74A753316
62P-J008	-010	502 02	A	74A750202
62P-J008	-010	503 02	B	74A750302
62P-L027	-010	503 02	B	74A750302
62P-S012A	-060	602 26	A	74A760226
62P-S012A	-060	603 26	B	74A760326
62P-T011A	-060	602 26	A	74A760226
62P-T011A	-060	603 26	B	74A760326
62S-A030	-070	701 71	A/B	74A770171
62S-B029	-070	701 70	A/B	74A770170
62S-H033	-070	700 29	A/B	74A770029
62S-S036	-060	602 26	A	74A760226
62S-S036	-060	603 26	B	74A760326
62S-S036	-070	702 00	A/B	74A770200
62S-T035	-060	602 26	A	74A760226
62S-T035	-060	603 26	B	74A760326
62S-T035	-070	702 00	A/B	74A770200
64CBC011	-070	700 05	A	74A770005
64CBC011	-070	705 05	B	74A770505
64CBC012	-070	700 05	A	74A770005
64CBC012	-070	705 05	B	74A770505
64CBC013	-070	700 05	A	74A770005
64CBC013	-070	705 05	B	74A770505
64CBC016	-070	700 05	A	74A770005
64CBC016	-070	705 05	B	74A770505
64J-E001F	-040	562 33	A/B	74A756233
64K-C015	-070	700 05	A	74A770005
64K-C015	-070	705 05	B	74A770505
64K-C024	-070	700 05	A	74A770005
64K-C024	-070	705 05	B	74A770505
64P-E001A	-020	532 17	A	74A753217
64P-E001A	-030	533 17	B	74A753317
64P-E001B	-020	532 17	A	74A753217
64P-E001B	-030	533 17	B	74A753317
64P-E001F	-020	532 17	A	74A753217
64P-E001F	-030	533 17	B	74A753317
64P-E001G	-020	532 17	A	74A753217

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
64P-E001G	-030	533 17	B	74A753317
64P-E001G	-040	562 33	A/B	74A756233
64P-E001Q	-020	532 17	A	74A753217
64P-E001Q	-030	533 17	B	74A753317
64S-H014	-070	700 29	A/B	74A770029
65CBD024	-070	700 02	A/B	74A770002
65CBD024	-070	700 04	A/B	74A770004
65CBD024	-070	705 04	B	74A770504
65CBD025	-070	700 02	A/B	74A770002
65CBD025	-070	700 04	A/B	74A770004
65CBD025	-070	705 04	B	74A770504
65J-P004	-060	602 24	A/B	74A760224
65J-R005	-060	602 23	A/B	74A760223
65K-F026	-070	700 06	A	74A770006
65K-F026	-070	705 06	B	74A770506
65M-H009	-070	700 29	A/B	74A770029
65M-H010	-070	700 29	A/B	74A770029
65M-H011	-070	700 29	A/B	74A770029
65P-K003	-010	503 01	B	74A750301
65P-L003	-010	502 01	A	74A750201
65P-P001A	-050	602 07	A/B	74A760207
65P-P001A	-060	602 24	A/B	74A760224
65P-P001B	-050	602 07	A/B	74A760207
65P-P001B	-060	602 24	A/B	74A760224
65P-R002A	-050	602 07	A/B	74A760207
65P-R002A	-060	602 23	A/B	74A760223
65P-R002B	-050	602 07	A/B	74A760207
65P-R002B	-060	602 23	A/B	74A760223
65S-H006	-070	700 29	A/B	74A770029
65S-H007	-070	700 29	A/B	74A770029
65S-H027	-010	502 01	A	74A750201
65S-H027	-010	503 01	B	74A750301
66CBD002	-070	700 02	A/B	74A770002
66CBD002	-070	700 04	A/B	74A770004
66J-C004	-020	532 17	A	74A753217
66J-C004	-030	533 17	B	74A753317
66P-C004	-020	532 11	A	74A753211
66P-C004	-030	533 11	B	74A753311
66P-F001A	-020	532 17	A	74A753217
66P-F001A	-030	533 17	B	74A753317
66P-F001B	-020	532 16	A	74A753216
66P-F001B	-030	533 16	B	74A753316
66P-F001C	-020	532 16	A	74A753216
66P-F001C	-030	533 16	B	74A753316
66P-F001D	-020	532 14	A	74A753214
66P-F001D	-030	533 14	B	74A753314
67CBD003	-070	700 02	A/B	74A770002
67P-J002	-010	502 02	A	74A750202
67P-J002	-010	503 02	B	74A750302
67P-T001A	-060	602 25	A	74A760225
67P-T001A	-060	603 25	B	74A760325
67P-T001E	-060	602 25	A	74A760225
67P-T001E	-060	603 25	B	74A760325
67P-T001G	-060	602 25	A	74A760225
67P-T001G	-060	603 25	B	74A760325
68CBC006	-070	700 05	A	74A770005
68CBC006	-070	705 05	B	74A770505
68CBC007	-070	700 05	A	74A770005

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
68CBC007	-070	705 05	B	74A770505
68CBC008	-070	700 05	A	74A770005
68CBC008	-070	705 05	B	74A770505
68CBC009	-070	700 42	A	74A770042
68CBC009	-070	705 42	B	74A770542
68CBD005	-070	700 02	A/B	74A770002
68P-E001A	-020	532 19	A	74A753219
68P-E001A	-030	533 19	B	74A753319
68P-E001C	-020	532 19	A	74A753219
68P-E001C	-030	533 19	B	74A753319
68S-J010	-070	700 20	A/B	74A770020
69CBD004	-070	700 02	A/B	74A770002
69CBD004	-070	700 04	A/B	74A770004
69J-F007	-020	530 03	A	74A753003
69J-R007	-050	601 11	B	74A760111
69K-F009	-070	700 06	A	74A770006
69K-F009	-070	705 06	B	74A770506
69P-F001B	-020	532 16	A	74A753216
69P-F001B	-030	533 16	B	74A753316
69P-F001C	-020	532 14	A	74A753214
69P-F001C	-030	533 14	B	74A753314
69P-F001E	-020	530 03	A	74A753003
69P-F001E	-020	531 03	B	74A753103
69P-F001F	-020	530 02	A/B	74A753002
69P-F007	-020	531 03	B	74A753103
69P-F007	-050	600 11	A	74A760011
69P-F008A	-020	530 02	A/B	74A753002
69P-F008B	-020	530 29	A/B	74A753029
69P-R006	-050	600 11	A	74A760011
69P-R006	-050	601 11	B	74A760111
7A-S048	-070	702 02	A/B	74A770202
7CBC002	-070	700 05	A	74A770005
7CBC002	-070	705 05	B	74A770505
7CBC005	-070	700 05	A	74A770005
7CBC005	-070	705 05	B	74A770505
7CBC012	-070	700 05	A	74A770005
7CBC012	-070	705 05	B	74A770505
7CBC029	-070	700 05	A	74A770005
7CBC029	-070	705 05	B	74A770505
7CBC035	-070	700 05	A	74A770005
7CBC035	-070	705 05	B	74A770505
7DSA015	-070	701 06	A/B	74A770106
7DSB017	-070	701 07	A/B	74A770107
7DSM007	-040	542 16	A/B	74A754216
7DSN008	-040	552 13	A/B	74A755213
7DSS023	-070	702 00	A/B	74A770200
7DSS030	-070	702 00	A/B	74A770200
7DST025	-070	702 00	A/B	74A770200
7DST031	-070	702 00	A/B	74A770200
7DSU011	-070	701 05	A/B	74A770105
7DSU019	-070	701 08	A/B	74A770108
7DSU049	-070	701 52	A/B	74A770152
7DSV010	-070	701 04	A/B	74A770104
7DSV021	-070	701 09	A/B	74A770109
7DSV050	-070	701 53	A/B	74A770153
7E-A014	-020	532 11	A	74A753211
7E-A014	-030	533 11	B	74A753311
7E-A014	-070	701 06	A/B	74A770106

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
7E-B016	-020	532 16	A	74A753216
7E-B016	-030	533 16	B	74A753316
7E-B016	-070	701 07	A/B	74A770107
7E-U018	-070	701 08	A/B	74A770108
7E-U018	-070	701 52	A/B	74A770152
7E-U018	-070	701 66	A/B	74A770166
7E-V020	-070	701 09	A/B	74A770109
7E-V020	-070	701 53	A/B	74A770153
7E-V020	-070	701 67	A/B	74A770167
7FLS044	-060	602 26	A	74A760226
7FLS044	-060	603 26	B	74A760326
7FLS044	-070	702 00	A/B	74A770200
7FLS046	-060	602 26	A	74A760226
7FLS046	-060	603 26	B	74A760326
7FLS046	-070	702 00	A/B	74A770200
7FLT045	-060	602 25	A	74A760225
7FLT045	-060	603 25	B	74A760325
7FLT045	-070	702 00	A/B	74A770200
7FLT047	-060	602 25	A	74A760225
7FLT047	-060	603 25	B	74A760325
7FLT047	-070	702 00	A/B	74A770200
7FLU053	-070	701 66	A/B	74A770166
7FLV054	-070	701 67	A/B	74A770167
7J-S048	-070	702 02	A/B	74A770202
7J-U042	-040	542 09	A/B	74A754209
7J-V043	-040	552 09	A/B	74A755209
7K-C004	-070	700 05	A	74A770005
7K-C004	-070	705 05	B	74A770505
7K-C040	-070	700 05	A	74A770005
7K-C040	-070	705 05	B	74A770505
7P-G026	-020	532 13	A/B	74A753213
7P-K032	-010	503 01	B	74A750301
7P-L032	-010	502 01	A	74A750201
7P-S036A	-060	602 26	A	74A760226
7P-S036A	-060	603 26	B	74A760326
7P-S036B	-060	612 05	A/B	74A761205
7P-S036C	-060	612 06	A/B	74A761206
7P-S037	-060	612 06	A/B	74A761206
7P-S048	-060	612 09	A/B	74A761209
7P-T009	-060	612 11	A/B	74A761211
7P-T038	-060	612 05	A/B	74A761205
7R-H006	-070	700 19	A/B	74A770019
7R-H013	-070	700 19	A/B	74A770019
7S-H028	-070	700 13	A/B	74A770013
7S-H041	-070	700 19	A/B	74A770019
7T-T039	-060	602 25	A	74A760225
7T-T039	-060	603 25	B	74A760325
7T-T039	-060	612 11	A/B	74A761211
7TBS048	-070	702 02	A/B	74A770202
70CBD006	-070	700 02	A/B	74A770002
70CBD006	-070	700 04	A/B	74A770004
70J-A003	-020	532 11	A	74A753211
70J-A003	-030	533 11	B	74A753311
70J-B004	-020	532 16	A	74A753216
70J-B004	-030	533 16	B	74A753316
70P-E005	-020	532 19	A	74A753219
70P-E005	-030	533 19	B	74A753319
70P-F001A	-020	532 16	A	74A753216

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
70P-F001A	-030	533 16	B	74A753316
70P-F001B	-020	532 16	A	74A753216
70P-F001B	-030	533 16	B	74A753316
70P-F001B	-070	943 63	A/B	74R794363
71CBD002	-070	700 02	A/B	74A770002
71CBD003	-070	700 02	A/B	74A770002
71CBD003	-070	700 04	A/B	74A770004
71CBD003	-070	705 04	B	74A770504
71J-B004	-020	530 06	A/B	74A753006
71J-F006	-020	530 40	A/B	74A753040
71P-B001A	-020	520 03	A/B	74A752003
71P-B001B	-020	522 03	A/B	74A752203
71P-B004	-020	520 03	A/B	74A752003
71P-F006	-020	530 06	A/B	74A753006
72CBD007	-070	700 04	A/B	74A770004
72CBD007	-070	705 04	B	74A770504
72J-B009	-020	532 14	A	74A753214
72J-B009	-030	533 14	B	74A753314
72K-F005	-070	700 06	A	74A770006
72K-F005	-070	705 06	B	74A770506
72K-F006	-070	700 06	A	74A770006
72K-F006	-070	705 06	B	74A770506
72P-A002A	-020	520 04	A/B	74A752004
72P-A002B	-020	522 03	A/B	74A752203
72P-A002D	-020	522 03	A/B	74A752203
72P-A002F	-020	522 03	A/B	74A752203
72P-A002G	-020	522 03	A/B	74A752203
72P-B001A	-020	522 03	A/B	74A752203
72P-B004	-020	520 04	A/B	74A752004
72P-B009	-020	522 03	A/B	74A752203
74CBC003	-070	700 05	A	74A770005
74CBC003	-070	705 05	B	74A770505
74CBC004	-070	700 05	A	74A770005
74CBC004	-070	705 05	B	74A770505
74CBC005	-070	700 05	A	74A770005
74CBC005	-070	705 05	B	74A770505
74CBC006	-070	700 05	A	74A770005
74CBC006	-070	705 05	B	74A770505
74J-B007	-020	530 05	A/B	74A753005
74J-B008	-020	530 04	A/B	74A753004
74K-F09	-070	700 06	A	74A770006
74K-F009	-070	705 06	B	74A770506
74K-F010	-070	700 06	A	74A770006
74K-F010	-070	705 06	B	74A770506
74P-B001A	-020	522 03	A/B	74A752203
74P-B001B	-020	520 01	A/B	74A752001
74P-B001C	-020	520 02	A/B	74A752002
74P-B007	-020	520 01	A/B	74A752001
74P-B008	-020	520 02	A/B	74A752002
74P-F002A	-020	532 16	A	74A753216
74P-F002A	-030	533 16	B	74A753316
74P-F002B	-020	532 16	A	74A753216
74P-F002B	-030	533 16	B	74A753316
74P-F002D	-020	530 05	A/B	74A753005
74P-F002F	-020	530 04	A/B	74A753004
75J-N001	-040	552 13	A/B	74A755213
75R-J008	-070	700 30	A/B	74A770030
75R-J009	-070	700 30	A/B	74A770030

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
75R-J010	-070	700 30	A/B	74A770030
75R-J011	-070	700 30	A/B	74A770030
75R-J012	-070	700 30	A/B	74A770030
76ATB017	-070	700 22	A/B	74A770022
76CBC027	-070	700 42	A	74A770042
76CBC027	-070	705 42	B	74A770542
76CBD014	-070	700 04	A/B	74A770004
76CBD014	-070	705 04	B	74A770504
76CBD015	-070	700 10	A/B	74A770010
76CBD025	-070	700 02	A/B	74A770002
76CBD025	-070	700 04	A/B	74A770004
76CBD025	-070	705 04	B	74A770504
76CBD030	-070	700 04	A/B	74A770004
76CBD030	-070	705 04	B	74A770504
76J-B018	-020	530 12	A/B	74A753012
76J-B023A	-070	700 22	A/B	74A770022
76J-B023B	-070	700 22	A/B	74A770022
76J-F005	-020	530 39	A/B	74A753039
76J-F019	-020	530 14	A	74A753014
76J-F029	-020	530 09	A/B	74A753009
76J-H016	-010	502 11	A	74A750211
76J-H016	-010	503 11	B	74A750311
76J-J003	-010	502 11	A	74A750211
76J-J003	-010	503 11	B	74A750311
76J-K031	-010	503 11	B	74A750311
76J-K032	-070	705 50	B	74A770550
76J-L028	-010	503 05	B	74A750305
76J-R019	-050	601 16	B	74A760116
76P-B003	-020	522 05	A/B	74A752205
76P-B011A	-020	520 06	A/B	74A752006
76P-B011B	-020	520 07	A/B	74A752007
76P-B018	-020	520 06	A/B	74A752006
76P-B023A	-020	522 05	A/B	74A752205
76P-F001A	-020	530 07	A/B	74A753007
76P-F001B	-020	532 16	A	74A753216
76P-F001B	-030	533 16	B	74A753316
76P-F001E	-020	532 16	A	74A753216
76P-F001E	-030	533 16	B	74A753316
76P-F001G	-020	532 17	A	74A753217
76P-F001G	-030	533 17	B	74A753317
76P-F002A	-020	530 08	A/B	74A753008
76P-F002B	-020	532 18	A	74A753218
76P-F002B	-030	533 18	B	74A753318
76P-F002E	-020	532 16	A	74A753216
76P-F002E	-030	533 16	B	74A753316
76P-F002G	-020	532 14	A	74A753214
76P-F002G	-030	533 14	B	74A753314
76P-F004A	-020	532 16	A	74A753216
76P-F004A	-030	533 16	B	74A753316
76P-F004B	-020	530 14	A	74A753014
76P-F004B	-020	531 14	B	74A753114
76P-F004C	-020	530 07	A/B	74A753007
76P-F004D	-020	530 39	A/B	74A753039
76P-F004E	-020	530 20	A	74A753020
76P-F004E	-020	531 20	B	74A753120
76P-F004F	-020	530 09	A/B	74A753009
76P-F004G	-020	530 40	A/B	74A753040
76P-F004H	-020	530 08	A/B	74A753008

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
76P-F005	-020	530 12	A/B	74A753012
76P-F012A	-020	530 15	A/B	74A753015
76P-F012B	-020	530 29	A/B	74A753029
76P-F019	-020	531 14	B	74A753114
76P-F019	-050	600 16	A	74A760016
76P-F029	-020	530 15	A/B	74A753015
76P-F042A	-020	530 08	A/B	74A753008
76P-H009A	-010	502 01	A	74A750201
76P-H009A	-010	503 01	B	74A750301
76P-H009B	-010	502 01	A	74A750201
76P-H009B	-010	502 02	A	74A750202
76P-H009B	-010	503 01	B	74A750301
76P-H009B	-070	943 18	A	74R794318
76P-H009D	-010	502 11	A	74A750211
76P-H009D	-010	503 11	B	74A750311
76P-J008A	-010	502 02	A	74A750202
76P-J008A	-010	503 02	B	74A750302
76P-J008B	-010	502 11	A	74A750211
76P-J008B	-010	503 11	B	74A750311
76P-K032	-010	503 01	B	74A750301
76P-R013A	-050	600 16	A	74A760016
76P-R013A	-050	601 16	B	74A760116
76P-R013B	-050	600 12	A	74A760012
76P-R013B	-050	601 12	B	74A760112
76R-K035	-070	705 50	B	74A770550
76R-K036	-070	705 50	B	74A770550
76R-K037	-070	705 50	B	74A770550
76S-H026	-070	700 23	A	74A770023
76S-H026	-070	705 23	B	74A770523
76S-H034	-070	705 23	B	74A770523
76S-K033	-070	705 50	B	74A770550
77CBC006	-070	700 05	A	74A770005
77CBC006	-070	705 05	B	74A770505
77J-G002	-020	532 19	A	74A753219
77J-G002	-030	533 19	B	74A753319
77J-K004	-010	501 02	B	74A750102
77J-L004	-010	500 02	A	74A750002
77P-E003A	-020	531 19	B	74A753119
77P-E003B	-020	531 20	B	74A753120
77P-E004	-020	531 19	B	74A753119
77P-F003A	-020	530 19	A	74A753019
77P-F003B	-020	530 20	A	74A753020
77P-F004	-020	530 19	A	74A753019
77P-K001A	-010	501 02	B	74A750102
77P-K001B	-010	503 01	B	74A750301
77P-K001E	-010	503 01	B	74A750301
77P-K001G	-010	503 01	B	74A750301
77P-L001A	-010	500 02	A	74A750002
77P-L001B	-010	502 02	A	74A750202
77P-L001E	-010	502 02	A	74A750202
77P-L001G	-010	502 02	A	74A750202
78CBC004	-070	700 42	A	74A770042
78CBC004	-070	705 42	B	74A770542
78CBC009	-070	700 42	A	74A770042
78CBC009	-070	705 42	B	74A770542
78J-B007	-020	530 21	A/B	74A753021
78J-E008	-020	530 22	A	74A753022

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
78J-P008	-050	601 12	B	74A760112
78K-C010	-070	700 05	A	74A770005
78K-C010	-070	705 05	B	74A770505
78P-B007	-020	520 07	A/B	74A752007
78P-E001A	-020	532 17	A	74A753217
78P-E001A	-030	533 17	B	74A753317
78P-E001B	-020	532 17	A	74A753217
78P-E001B	-030	533 17	B	74A753317
78P-E001C	-020	530 22	A	74A753022
78P-E001C	-020	531 22	B	74A753122
78P-E001D	-020	530 21	A/B	74A753021
78P-E003	-020	532 17	A	74A753217
78P-E003	-030	533 17	B	74A753317
78P-E008	-020	531 22	B	74A753122
78P-E008	-050	600 12	A	74A760012
78P-K005	-010	502 02	A	74A750202
78P-L005	-010	503 02	B	74A750302
78S-H006	-070	700 23	A	74A770023
78S-H006	-070	705 23	B	74A770523
79CBD002	-070	700 02	A/B	74A770002
79CBD002	-070	700 04	A/B	74A770004
79CBD002	-070	705 04	B	74A770504
79CBD003	-070	700 02	A/B	74A770002
79CBD004	-070	700 02	A/B	74A770002
79CBD005	-070	700 02	A/B	74A770002
79CBD036	-070	700 02	A/B	74A770002
79CBD037	-070	700 02	A/B	74A770002
79CBD038	-070	700 02	A/B	74A770002
79CBD039	-070	700 04	A/B	74A770004
79CBD039	-070	705 04	B	74A770504
79J-E023	-070	705 55	B	74A770555
79J-L023	-070	700 55	A	74A770055
79J-L024	-010	502 02	A	74A750202
79J-L024	-070	943 18	A	74R794318
79K-C031	-030	533 19	B	74A753319
79K-C031	-070	700 05	A	74A770005
79K-C031	-070	705 05	B	74A770505
79K-C031G	-070	705 05	B	74A770505
79K-C032	-070	700 05	A	74A770005
79K-C032	-070	700 50	A/B	74A770050
79K-C032	-070	705 05	B	74A770505
79K-E033	-070	705 55	B	74A770555
79K-E034	-070	705 55	B	74A770555
79K-L033	-070	700 55	A	74A770055
79K-L034	-070	700 55	A	74A770055
79K-L035	-070	700 55	A	74A770055
79P-E021A	-030	533 16	B	74A753316
79P-E021A	-070	943 27	B	74R794327
79P-E021A	-070	943 30	B	74R794330
79P-E021B	-030	533 16	B	74A753316
79P-E021B	-070	943 27	B	74R794327
79P-E021B	-070	943 30	B	74R794330
79P-E023	-030	533 16	B	74A753316
79P-E023	-070	943 27	B	74R794327
79P-E023	-070	943 30	B	74R794330
79P-J001A	-010	502 03	A	74A750203
79P-J001A	-010	503 03	B	74A750303

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
79P-J001B	-010	502 03	A	74A750203
79P-J001B	-010	503 03	B	74A750303
79P-J001B	-070	943 18	A	74R794318

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
79P-L021A	-010	502 02	A	74A750202
79P-L021A	-070	943 18	A	74R794318
79P-L021B	-010	502 02	A	74A750202
79P-L021B	-070	943 18	A	74R794318
79P-L023	-010	502 02	A	74A750202
79P-L023	-070	943 18	A	74R794318
8A-J002	-070	700 18	A/B	74A770018
8CBC105	-070	705 42	B	74A770542
8CBC106	-070	705 42	B	74A770542
8CBC107	-070	705 42	B	74A770542
8CBC108	-070	705 42	B	74A770542
8CBD003	-070	700 10	A/B	74A770010
8CBD004	-070	700 10	A/B	74A770010
8CBD005	-070	700 02	A/B	74A770002
8CBD005	-070	700 04	A/B	74A770004
8CBD005	-070	705 04	B	74A770504
8CBD046	-070	700 02	A/B	74A770002
8CBD047	-070	700 02	A/B	74A770002
8CBD048	-070	700 02	A/B	74A770002
8CBD079	-070	700 02	A/B	74A770002
8DSH029	-010	502 01	A	74A750201
8DSH029	-010	503 01	B	74A750301
8DSH030	-010	502 01	A	74A750201
8DSH030	-010	503 01	B	74A750301
8DSH031	-070	701 27	A/B	74A770127
8DSH056	-070	701 68	A/B	74A770168
8DSH062	-010	502 01	A	74A750201
8DSH062	-010	503 01	B	74A750301
8DSH063	-010	502 01	A	74A750201
8DSH063	-010	503 01	B	74A750301
8DSH143	-070	701 37	A	74A770137
8DSH143	-070	701 38	B	74A770138
8DSH158	-010	502 01	A	74A750201
8DSH158	-010	503 01	B	74A750301
8DSH158	-070	701 30	A/B	74A770130
8DSJ017	-010	502 02	A	74A750202
8DSJ017	-010	503 02	B	74A750302
8DSJ019	-010	502 02	A	74A750202
8DSJ019	-010	503 02	B	74A750302
8DSJ025	-010	502 02	A	74A750202
8DSJ025	-010	503 02	B	74A750302
8DSJ028	-010	502 02	A	74A750202
8DSJ028	-010	503 02	B	74A750302
8DSJ039	-070	700 30	A/B	74A770030
8DSJ053	-070	700 32	A/B	74A770032
8DSJ054	-010	502 24	A/B	74A750224
8DSJ054	-070	701 28	A/B	74A770128
8DSJ055	-010	502 24	A/B	74A750224
8DSJ066	-010	502 02	A	74A750202
8DSJ066	-010	503 02	B	74A750302
8DSJ092	-010	502 02	A	74A750202
8DSJ092	-010	503 02	B	74A750302
8DSJ128	-070	701 34	A/B	74A770134
8DSJ150	-070	701 39	A	74A770139
8DSJ150	-070	701 40	B	74A770140
8DSJ150	-070	991 20	B	99120
8DSJ150	-070	991 30	A	99130
8DSJ165	-070	701 72	A/B	74A770172

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
8DSK114	-010	503 01	B	74A750301
8DSK115	-010	503 01	B	74A750301
8DSK132	-010	503 21	B	74A750321
8DSK132	-070	706 75	B	74A770675
8DSK133	-010	503 21	B	74A750321
8DSK134	-010	503 21	B	74A750321
8DSK155	-010	503 02	B	74A750302
8DSL117	-010	503 02	B	74A750302
8DSL131	-010	503 22	B	74A750322
8DSL131	-070	706 78	B	74A770678
8DSL135	-010	503 02	B	74A750302
8DSL136	-010	503 02	B	74A750302
8DSL137	-070	705 53	B	74A770553
8DSL156	-010	503 22	B	74A750322
8FLH096	-070	701 27	A/B	74A770127
8FLH161	-070	701 68	A/B	74A770168
8FLJ070	-070	700 30	A/B	74A770030
8FLJ095	-070	701 28	A/B	74A770128
8FLJ164	-070	701 72	A/B	74A770172
8FLK122	-070	706 75	B	74A770675
8FLL123	-070	706 78	B	74A770678
8FLL124	-070	705 53	B	74A770553
8J-H015	-070	700 27	A/B	74A770027
8J-H018	-070	700 35	A/B	74A770035
8J-H026	-070	700 13	A/B	74A770013
8J-H027	-070	700 11	A	74A770011
8J-H027	-070	705 11	B	74A770511
8J-H059	-070	700 21	A/B	74A770021
8J-H060	-070	700 25	A/B	74A770025
8J-H061	-070	700 23	A	74A770023
8J-H061	-070	705 23	B	74A770523
8J-H064	-070	700 19	A/B	74A770019
8J-H068	-070	700 29	A/B	74A770029
8J-H071	-070	700 35	A/B	74A770035
8J-H154	-070	700 33	A/B	74A770033
8J-J002	-070	700 18	A/B	74A770018
8J-J016	-070	700 14	A/B	74A770014
8J-J022	-070	700 18	A/B	74A770018
8J-J023	-070	700 20	A/B	74A770020
8J-J024	-070	700 12	A/B	74A770012
8J-J065	-070	700 16	A/B	74A770016
8J-K119	-070	705 52	B	74A770552
8J-K151	-070	705 50	B	74A770550
8J-K160	-070	705 43	B	74A770543
8J-K163	-070	705 56	B	74A770556
8J-L098	-070	705 51	B	74A770551
8J-L152	-070	705 54	B	74A770554
8J-L153	-070	705 51	B	74A770551
8K-C109	-070	705 05	B	74A770505
8K-C110	-070	705 05	B	74A770505
8K-C111	-070	705 05	B	74A770505
8K-C113	-070	705 05	B	74A770505
8K-C140	-070	705 05	B	74A770505
8K-C142	-070	705 05	B	74A770505
8K-C147	-070	705 05	B	74A770505
8K-F045	-070	700 06	A	74A770006
8K-F045	-070	705 06	B	74A770506
8K-F049	-070	700 06	A	74A770006

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
8K-F049	-070	705 06	B	74A770506
8K-F050	-070	700 06	A	74A770006
8K-F050	-070	705 06	B	74A770506
8K-F067	-070	700 06	A	74A770006
8K-F067	-070	705 06	B	74A770506
8K-F093	-070	700 06	A	74A770006
8K-F093	-070	705 06	B	74A770506
8K-F094	-070	700 06	A	74A770006
8K-F094	-070	705 06	B	74A770506
8K-F112	-070	700 06	A	74A770006
8K-F112	-070	705 06	B	74A770506
8P-H052	-010	502 01	A	74A750201
8P-H052	-010	503 01	B	74A750301
8P-J002	-010	502 02	A	74A750202
8P-J002	-010	503 02	B	74A750302
8P-J020	-010	502 02	A	74A750202
8P-J020	-010	503 02	B	74A750302
8P-J021	-010	502 02	A	74A750202
8P-J021	-010	503 02	B	74A750302
8P-J042	-010	502 02	A	74A750202
8P-J042	-010	503 02	B	74A750302
8P-J042	-030	533 12	B	74A753312
8P-K126	-010	503 01	B	74A750301
8P-L001A	-010	502 02	A	74A750202
8P-L001A	-010	503 02	B	74A750302
8P-L001B	-010	502 02	A	74A750202
8P-L001B	-010	503 02	B	74A750302
8P-L080	-010	502 18	A	74A750218
8P-L080	-010	503 18	B	74A750318
8P-L080A	-070	991 20	B	99120
8P-L080A	-070	991 30	A	99130
8P-L080B	-010	502 18	A	74A750218
8P-L080B	-010	503 18	B	74A750318
8P-L097A	-010	503 02	B	74A750302
8P-L097B	-010	503 02	B	74A750302
8P-L097B	-070	943 28	B	74R794328
8P-L098	-010	503 02	B	74A750302
8P-L118	-010	503 02	B	74A750302
8P-L127	-010	503 02	B	74A750302
8R-J007	-070	700 18	A/B	74A770018
8R-J008	-070	700 18	A/B	74A770018
8R-J009	-070	700 18	A/B	74A770018
8R-J010	-070	700 18	A/B	74A770018
8R-L100	-070	705 51	B	74A770551
8R-L101	-070	705 51	B	74A770551
8R-L102	-070	705 51	B	74A770551
8R-L103	-070	705 51	B	74A770551
8S-J011	-070	700 18	A/B	74A770018
8S-J012	-070	700 18	A/B	74A770018
8S-L099	-070	705 51	B	74A770551
80CBC004	-070	700 42	A	74A770042
80CBC004	-070	705 42	B	74A770542
80CBC005	-070	700 42	A	74A770042
80CBC005	-070	705 42	B	74A770542
80CBC006	-070	700 42	A	74A770042
80CBC006	-070	705 42	B	74A770542
80CBC010	-070	700 42	A	74A770042
80CBC010	-070	705 42	B	74A770542

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
80CBC011	-070	700 42	A	74A770042
80CBC011	-070	705 42	B	74A770542
80CBC012	-070	700 42	A	74A770042
80CBC012	-070	705 42	B	74A770542
80CBD007	-070	700 02	A/B	74A770002
80CBD008	-070	700 02	A/B	74A770002
80CBD009	-070	700 02	A/B	74A770002
80J-J020	-010	503 05	B	74A750305
80J-J020	-070	943 22	B	74R794322
80J-K023	-070	705 56	B	74A770556
80J-L018	-010	503 03	B	74A750303
80J-L021	-010	502 03	A	74A750203
80J-L021	-010	503 05	B	74A750305
80J-L021	-070	943 19	A	74R794319
80J-L021	-070	943 25	B	74R794325
80J-L022	-010	502 03	A	74A750203
80J-L022	-010	503 05	B	74A750305
80J-L022	-070	943 20	A	74R794320
80J-L022	-070	943 26	B	74R794326
80P-H001A	-010	502 03	A	74A750203
80P-H001A	-010	503 03	B	74A750303
80P-H001B	-010	502 03	A	74A750203
80P-H001B	-010	503 03	B	74A750303
80P-H001B	-070	943 20	A	74R794320
80P-J002A	-010	502 03	A	74A750203
80P-J002A	-010	503 03	B	74A750303
80P-J002A	-070	943 28	B	74R794328
80P-J002B	-010	502 03	A	74A750203
80P-J002B	-010	503 03	B	74A750303
80P-J002B	-070	943 19	A	74R794319
80P-J003A	-010	502 03	A	74A750203
80P-J003A	-010	503 03	B	74A750303
80P-J003B	-010	502 03	A	74A750203
80P-J003B	-010	503 03	B	74A750303
80P-J020	-010	503 03	B	74A750303
80P-K019A	-010	503 05	B	74A750305
80P-K019B	-010	503 05	B	74A750305
80P-K023	-010	503 05	B	74A750305
80P-K023	-070	943 28	B	74R794328
80P-L016A	-010	503 05	B	74A750305
80P-L016B	-010	503 05	B	74A750305
80P-L017A	-010	503 05	B	74A750305
80P-L017B	-010	503 05	B	74A750305
80P-L018	-010	503 05	B	74A750305
80P-L021	-010	502 02	A	74A750202
80P-L021	-010	503 02	B	74A750302
80P-L021	-070	943 18	A	74R794318
80P-L022	-010	502 02	A	74A750202
80P-L022	-010	503 02	B	74A750302
80P-L022	-070	943 18	A	74R794318
80S-H014	-070	700 35	A/B	74A770035
80S-H015	-070	700 35	A/B	74A770035
80S-K024	-070	705 56	B	74A770556
82CBD002	-070	700 02	A/B	74A770002
82CBD002	-070	700 04	A/B	74A770004
82CBD003	-070	700 02	A/B	74A770002
82CBD003	-070	700 04	A/B	74A770004
82CBD004	-070	700 02	A/B	74A770002

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
82CBD004	-070	700 04	A/B	74A770004
82CBD005	-070	700 04	A/B	74A770004
82CBD005	-070	705 04	B	74A770504
82P-F001A	-020	532 16	A	74A753216
82P-F001A	-030	533 16	B	74A753316
82P-F001B	-020	532 16	A	74A753216
82P-F001B	-030	533 16	B	74A753316
82P-F001C	-020	532 17	A	74A753217
82P-F001C	-030	533 17	B	74A753317
83CBC006	-070	700 05	A	74A770005
83CBC006	-070	705 05	B	74A770505
83CBC007	-070	700 05	A	74A770005
83CBC007	-070	705 05	B	74A770505
83CBC008	-070	700 05	A	74A770005
83CBC008	-070	705 05	B	74A770505
83CBD009	-070	700 02	A/B	74A770002
83CBD010	-070	700 02	A/B	74A770002
83CBD011	-070	700 02	A/B	74A770002
83J-G003	-020	532 19	A	74A753219
83J-G003	-030	533 19	B	74A753319
83J-L018	-070	944 36	A	74R794436
83J-Y013	-070	700 17	A/B	74A770017
83K-C014	-070	700 42	A	74A770042
83K-C014	-070	705 42	B	74A770542
83P-E001A	-020	532 19	A	74A753219
83P-E001A	-030	533 19	B	74A753319
83P-E001B	-020	532 19	A	74A753219
83P-E001B	-030	533 19	B	74A753319
83P-E001C	-020	532 19	A	74A753219
83P-E001C	-030	533 19	B	74A753319
83P-E001D	-020	532 19	A	74A753219
83P-E001D	-030	533 19	B	74A753319
83P-E001E	-020	532 19	A	74A753219
83P-E001E	-030	533 19	B	74A753319
83P-E005	-020	532 17	A	74A753217
83P-E005	-030	533 17	B	74A753317
83P-F002A	-020	532 19	A	74A753219
83P-F002A	-030	533 19	B	74A753319
83P-F002B	-030	532 30	A	74A753230
83P-F002B	-030	533 30	B	74A753330
83P-F002C	-020	532 19	A	74A753219
83P-F002C	-030	533 19	B	74A753319
83P-F002D	-030	532 30	A	74A753230
83P-F002D	-030	533 30	B	74A753330
83P-F002E	-030	532 30	A	74A753230
83P-F002E	-030	533 30	B	74A753330
83P-F004	-030	532 30	A	74A753230
83P-F004	-030	533 30	B	74A753330
83S-H012	-070	700 25	A/B	74A770025
83TBY013A	-070	700 17	A/B	74A770017
83TBY013B	-070	700 17	A/B	74A770017
84CBC081	-070	700 42	A	74A770042
84CBC081	-070	705 42	B	74A770542
84CBC082	-070	700 42	A	74A770042
84CBC082	-070	705 42	B	74A770542
84CBC083	-070	700 42	A	74A770042
84CBC083	-070	705 42	B	74A770542
84CBC084	-070	700 42	A	74A770042

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84CBC084	-070	705 42	B	74A770542
84CBC087	-070	700 42	A	74A770042
84CBC087	-070	705 42	B	74A770542
84CBC089	-070	700 42	A	74A770042
84CBC089	-070	705 42	B	74A770542
84CBC090	-070	700 42	A	74A770042
84CBC090	-070	705 42	B	74A770542
84CBC101	-070	700 05	A	74A770005
84CBC101	-070	705 05	B	74A770505
84CBD030	-070	700 02	A/B	74A770002
84CBD030	-070	700 04	A/B	74A770004
84CBD030	-070	705 04	B	74A770504
84CBD080	-070	700 10	A/B	74A770010
84CBD098	-070	700 10	A/B	74A770010
84CBD099	-070	700 10	A/B	74A770010
84CBH008	-010	502 07	A	74A750207
84CBH008	-010	502 13	A/B	74A750213
84CBH008	-010	503 07	B	74A750307
84CBH009	-010	502 07	A	74A750207
84CBH009	-010	502 13	A/B	74A750213
84CBH009	-010	503 07	B	74A750307
84CBJ010	-010	502 08	A	74A750208
84CBJ010	-010	502 12	A/B	74A750212
84CBJ010	-010	503 08	B	74A750308
84CBJ011	-010	502 08	A	74A750208
84CBJ011	-010	502 12	A/B	74A750212
84CBJ011	-010	503 08	B	74A750308
84DSJ106	-070	700 12	A/B	74A770012
84J-C026B	-020	532 04	A	74A753204
84J-C026B	-030	533 04	B	74A753304
84J-C026B	-070	943 31	A/B	74R794331
84J-C026C	-020	532 01	A	74A753201
84J-C026C	-030	533 01	B	74A753301
84J-C026C	-070	943 31	A/B	74R794331
84J-E041	-020	532 01	A	74A753201
84J-E044	-020	532 04	A	74A753204
84J-E044	-030	533 04	B	74A753304
84J-E045	-020	532 01	A	74A753201
84J-E045	-020	532 02	A	74A753202
84J-E048	-020	532 04	A	74A753204
84J-E048	-030	533 04	B	74A753304
84J-F042	-020	532 02	A	74A753202
84J-F042	-030	533 02	B	74A753302
84J-F043	-020	532 03	A	74A753203
84J-F046	-020	532 02	A	74A753202
84J-F046	-030	533 02	B	74A753302
84J-F046	-050	602 02	B	74A760202
84J-F047	-020	532 03	A	74A753203
84J-H023	-010	502 07	A	74A750207
84J-H023	-010	503 07	B	74A750307
84J-H024	-010	502 07	A	74A750207
84J-H024	-010	503 07	B	74A750307
84J-H031	-010	502 07	A	74A750207
84J-H031	-010	503 07	B	74A750307
84J-H031	-070	943 32	A	74R794332
84J-H031	-070	943 33	B	74R794333
84J-H034	-010	502 07	A	74A750207

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84J-H034	-010	503 07	B	74A750307
84J-H034	-070	943 32	A	74R794332

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84J-H034	-070	943 33	B	74R794333
84J-H092	-010	502 07	A	74A750207
84J-J025A	-010	502 07	A	74A750207
84J-J025A	-010	503 07	B	74A750307
84J-J025B	-010	502 08	A	74A750208
84J-J025B	-010	503 08	B	74A750308
84J-J032	-010	502 08	A	74A750208
84J-J032	-010	503 08	B	74A750308
84J-J032	-070	943 32	A	74R794332
84J-J032	-070	943 33	B	74R794333
84J-J033	-010	502 08	A	74A750208
84J-J033	-010	503 08	B	74A750308
84J-J033	-030	533 04	B	74A753304
84J-J033	-070	943 32	A	74R794332
84J-J033	-070	943 33	B	74R794333
84J-J093	-010	502 08	A	74A750208
84J-J093	-010	503 08	B	74A750308
84J-J104	-070	700 12	A/B	74A770012
84J-J122A	-010	502 07	A	74A750207
84J-J122A	-010	502 08	A	74A750208
84J-J122A	-010	503 07	B	74A750307
84J-J122A	-010	503 08	B	74A750308
84J-J122A	-070	943 32	A	74R794332
84J-J122A	-070	943 33	B	74R794333
84J-J122B	-010	502 08	A	74A750208
84J-J122B	-010	503 08	B	74A750308
84J-J122B	-070	943 32	A	74R794332
84J-J122B	-070	943 33	B	74R794333
84J-K092	-010	503 07	B	74A750307
84J-K094	-010	503 07	B	74A750307
84J-K094	-070	943 33	B	74R794333
84J-L095	-010	503 08	B	74A750308
84J-L095	-070	943 33	B	74R794333
84J-L097A	-010	503 07	B	74A750307
84J-L097B	-010	503 08	B	74A750308
84J-M051	-050	602 01	A	74A760201
84J-M051	-060	603 01	B	74A760301
84J-M132	-060	602 49	A/B	74A760249
84J-M133	-060	602 50	A/B	74A760250
84J-N052	-050	602 02	A/B	74A760202
84J-P041	-060	603 01	B	74A760301
84J-P045	-060	603 01	B	74A760301
84J-P053	-050	602 04	A/B	74A760204
84J-P054	-060	602 20	A/B	74A760220
84J-P055	-060	602 20	A/B	74A760220
84J-P059	-060	602 37	A/B	74A760237
84J-P060	-060	602 36	A/B	74A760236
84J-P067	-050	602 02	A/B	74A760202
84J-R043	-060	603 03	B	74A760303
84J-R047	-050	602 02	B	74A760202
84J-R047	-060	603 03	B	74A760303
84J-R056	-050	602 02	A/B	74A760202
84J-R057	-050	602 14	A/B	74A760214
84J-R058	-050	602 14	A/B	74A760214
84J-R064	-060	602 38	A/B	74A760238
84J-R065	-060	602 39	A/B	74A760239
84J-R068	-050	602 04	A/B	74A760204
84J-S063	-050	602 01	A	74A760201

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REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84J-S063	-060	603 01	B	74A760301
84J-U049	-040	542 06	A/B	74A754206
84J-V050	-040	552 06	A/B	74A755206
84K-C073	-070	700 05	A	74A770005
84K-C073	-070	705 05	B	74A770505
84K-C074	-070	700 05	A	74A770005
84K-C074	-070	705 05	B	74A770505
84K-C075	-070	700 05	A	74A770005
84K-C075	-070	705 05	B	74A770505
84K-C076	-070	700 42	A	74A770042
84K-C076	-070	705 42	B	74A770542
84K-C077	-070	700 42	A	74A770042
84K-C077	-070	705 42	B	74A770542
84K-C078	-070	700 05	A	74A770005
84K-C078	-070	705 05	B	74A770505
84K-C079	-070	700 42	A	74A770042
84K-C079	-070	705 42	B	74A770542
84K-C088	-070	700 42	A	74A770042
84K-C088	-070	705 42	B	74A770542
84K-C091	-070	700 42	A	74A770042
84K-C091	-070	705 42	B	74A770542
84K-C102	-070	700 05	A	74A770005
84K-C102	-070	705 05	B	74A770505
84K-F070	-070	700 06	A	74A770006
84K-F070	-070	705 06	B	74A770506
84K-F071	-070	700 06	A	74A770006
84K-F071	-070	705 06	B	74A770506
84K-F072	-070	700 06	A	74A770006
84K-F072	-070	705 06	B	74A770506
84K-F079	-070	700 06	A	74A770006
84K-F079	-070	705 06	B	74A770506
84L-C103	-070	701 58	A/B	74A770158
84P-C026	-020	532 04	A	74A753204
84P-C026	-030	533 04	B	74A753304
84P-C026A	-020	532 04	A	74A753204
84P-C026A	-030	533 04	B	74A753304
84P-C031	-020	532 01	A	74A753201
84P-C031	-030	533 01	B	74A753301
84P-C031	-070	943 31	A/B	74R794331
84P-C034	-020	532 04	A	74A753204
84P-C034	-030	533 04	B	74A753304
84P-C034	-070	943 31	A/B	74R794331
84P-C092	-020	532 01	A	74A753201
84P-D012A	-020	532 02	A	74A753202
84P-D012A	-030	533 02	B	74A753302
84P-D012B	-020	532 04	A	74A753204
84P-D012B	-030	533 04	B	74A753304
84P-D032	-020	532 01	A	74A753201
84P-D032	-020	532 02	A	74A753202
84P-D032	-030	533 02	B	74A753302
84P-D032	-070	943 31	A/B	74R794331
84P-D033	-020	532 03	A	74A753203
84P-D033	-030	533 03	B	74A753303
84P-D033	-070	943 31	A/B	74R794331
84P-D093	-020	532 02	A	74A753202
84P-D093	-030	533 02	B	74A753302
84P-E041	-030	533 01	B	74A753301
84P-E041	-050	602 01	A	74A760201

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84P-E044	-050	602 04	A/B	74A760204
84P-E045	-030	533 01	B	74A753301
84P-E045	-050	602 01	A	74A760201
84P-E045	-070	986 06	A/B	74R798606
84P-E048	-050	602 04	A/B	74A760204
84P-E048	-070	986 07	A/B	74R798607
84P-E092	-030	533 01	B	74A753301
84P-E094	-030	533 04	B	74A753304
84P-F001A	-020	532 01	A	74A753201
84P-F001A	-030	533 01	B	74A753301
84P-F001B	-020	532 01	A	74A753201
84P-F001B	-030	533 01	B	74A753301
84P-F001C	-030	532 31	A/B	74A753231
84P-F001D	-020	532 01	A	74A753201
84P-F001D	-030	533 01	B	74A753301
84P-F001E	-030	532 33	A/B	74A753233
84P-F001F	-020	532 01	A	74A753201
84P-F001F	-030	533 01	B	74A753301
84P-F001H	-020	532 01	A	74A753201
84P-F001H	-020	532 02	A	74A753202
84P-F001H	-030	533 02	B	74A753302
84P-F001J	-020	532 02	A	74A753202
84P-F001J	-030	533 02	B	74A753302
84P-F001K	-030	532 34	A/B	74A753234
84P-F001L	-020	532 02	A	74A753202
84P-F001L	-030	533 02	B	74A753302
84P-F001M	-030	532 32	A/B	74A753232
84P-F001P	-020	532 02	A	74A753202
84P-F001P	-030	533 02	B	74A753302
84P-F002A	-020	532 03	A	74A753203
84P-F002A	-030	533 03	B	74A753303
84P-F002B	-010	502 03	A	74A750203
84P-F002B	-020	532 03	A	74A753203
84P-F002B	-030	533 03	B	74A753303
84P-F002C	-030	532 33	A/B	74A753233
84P-F002D	-020	532 03	A	74A753203
84P-F002D	-030	533 03	B	74A753303
84P-F002E	-030	532 31	A/B	74A753231
84P-F002F	-020	532 03	A	74A753203
84P-F002F	-030	533 03	B	74A753303
84P-F002H	-020	532 04	A	74A753204
84P-F002H	-030	533 04	B	74A753304
84P-F002J	-020	532 04	A	74A753204
84P-F002J	-030	533 04	B	74A753304
84P-F002K	-030	532 32	A/B	74A753232
84P-F002L	-020	532 04	A	74A753204
84P-F002L	-030	533 04	B	74A753304
84P-F002M	-030	532 34	A/B	74A753234
84P-F002P	-020	532 04	A	74A753204
84P-F002P	-030	533 04	B	74A753304
84P-F004A	-020	532 01	A	74A753201
84P-F004A	-030	533 01	B	74A753301
84P-F004B	-020	532 02	A	74A753202
84P-F004B	-030	533 02	B	74A753302
84P-F005A	-020	532 03	A	74A753203
84P-F005A	-030	533 03	B	74A753303
84P-F005B	-020	532 04	A	74A753204
84P-F005B	-030	533 04	B	74A753304

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84P-F006A	-020	532 03	A	74A753203
84P-F006A	-030	533 03	B	74A753303
84P-F006B	-020	532 04	A	74A753204
84P-F006B	-030	533 04	B	74A753304
84P-F007A	-020	532 01	A	74A753201
84P-F007A	-030	533 01	B	74A753301
84P-F007B	-020	532 02	A	74A753202
84P-F007B	-030	533 02	B	74A753302
84P-F042	-050	602 02	A/B	74A760202
84P-F043	-030	533 03	B	74A753303
84P-F043	-050	602 03	A	74A760203
84P-F046	-050	602 02	A/B	74A760202
84P-F047	-030	533 03	B	74A753303
84P-F047	-050	602 03	A	74A760203
84P-F048	-050	602 04	B	74A760204
84P-F095	-030	533 02	B	74A753302
84P-F095	-030	533 03	B	74A753303
84P-G035A	-020	532 13	A/B	74A753213
84P-G035B	-020	532 13	A/B	74A753213
84P-G036	-020	532 06	A	74A753206
84P-G036	-030	533 06	B	74A753306
84P-H003A	-010	502 07	A	74A750207
84P-H003A	-010	503 07	B	74A750307
84P-H003B	-010	502 07	A	74A750207
84P-H003B	-010	503 07	B	74A750307
84P-J037	-010	502 07	A	74A750207
84P-J037	-010	503 07	B	74A750307
84P-J104	-010	502 08	A	74A750208
84P-J104	-010	503 08	B	74A750308
84P-J122A	-070	700 48	A/B	74A770048
84P-J122B	-070	700 48	A/B	74A770048
84P-L096	-010	503 07	B	74A750307
84P-M021A	-050	602 01	A	74A760201
84P-M021A	-050	602 02	A/B	74A760202
84P-M021A	-060	603 01	B	74A760301
84P-M021A	-070	986 06	A/B	74R798606
84P-M021B	-050	602 02	A/B	74A760202
84P-M021B	-050	602 03	A	74A760203
84P-M021B	-060	603 03	B	74A760303
84P-M021C	-050	602 03	A	74A760203
84P-M021C	-060	603 03	B	74A760303
84P-M021D	-050	602 04	A/B	74A760204
84P-M021D	-070	986 07	A/B	74R798607
84P-M029A	-050	602 01	A	74A760201
84P-M029A	-060	603 01	B	74A760301
84P-M029A	-070	986 08	A/B	74R798608
84P-M029B	-050	602 02	A/B	74A760202
84P-M029B	-070	986 09	A/B	74R798609
84P-M029C	-050	602 03	A	74A760203
84P-M029C	-060	603 03	B	74A760303
84P-M029D	-050	602 04	A/B	74A760204
84P-M029D	-070	986 10	A/B	74R798610
84P-M051	-040	542 08	A/B	74A754208
84P-M110A	-060	602 49	A/B	74A760249
84P-M110B	-060	602 50	A/B	74A760250
84P-M132	-050	602 01	A	74A760201
84P-M132	-060	603 01	B	74A760301
84P-M132	-070	986 06	A/B	74R798606

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84P-M133	-050	602 04	A/B	74A760204
84P-M133	-070	986 07	A/B	74R798607
84P-N052	-040	552 08	A/B	74A755208
84P-P053	-050	602 08	A/B	74A760208
84P-P054	-050	602 08	A/B	74A760208
84P-P059	-050	602 08	A/B	74A760208
84P-P060	-060	602 40	A/B	74A760240
84P-P067	-060	602 40	A/B	74A760240
84P-R056	-050	602 06	A/B	74A760206
84P-R057	-050	602 06	A/B	74A760206
84P-R064	-050	602 06	A/B	74A760206
84P-R065	-060	602 41	A/B	74A760241
84P-R068	-060	602 41	A/B	74A760241
84P-S015A	-050	602 01	A	74A760201
84P-S015A	-060	603 01	B	74A760301
84P-S015B	-060	612 02	A/B	74A761202
84P-S015C	-050	602 03	A	74A760203
84P-S015C	-060	603 03	B	74A760303
84P-S015D	-060	612 04	A/B	74A761204
84P-S017A	-050	602 01	A	74A760201
84P-S017A	-060	603 01	B	74A760301
84P-S017B	-060	612 04	A/B	74A761204
84P-S055	-060	612 04	A/B	74A761204
84P-T016A	-050	602 01	A	74A760201
84P-T016A	-060	603 01	B	74A760301
84P-T016B	-060	612 02	A/B	74A761202
84P-T016C	-050	602 03	A	74A760203
84P-T016C	-060	603 03	B	74A760303
84P-T016D	-060	612 04	A/B	74A761204
84P-T018A	-050	602 03	A	74A760203
84P-T018A	-060	603 03	B	74A760303
84P-T018B	-060	612 02	A/B	74A761202
84P-T058	-060	612 02	A/B	74A761202
84P-U013A	-050	602 01	A	74A760201
84P-U013A	-060	603 01	B	74A760301
84P-U013B	-060	602 36	A/B	74A760236
84P-U013C	-050	602 03	A	74A760203
84P-U013C	-060	603 03	B	74A760303
84P-U013D	-060	602 37	A/B	74A760237
84P-U019A	-040	542 03	A/B	74A754203
84P-U019B	-040	542 03	A/B	74A754203
84P-U027A	-040	542 05	A/B	74A754205
84P-U027B	-040	542 05	A/B	74A754205
84P-U027B	-040	552 05	A	74A755205
84P-U049	-060	602 37	A/B	74A760237
84P-V014A	-050	602 01	A	74A760201
84P-V014A	-060	603 01	B	74A760301
84P-V014B	-060	602 38	A/B	74A760238
84P-V014C	-050	602 03	A	74A760203
84P-V014C	-060	603 03	B	74A760303
84P-V014D	-060	602 39	A/B	74A760239
84P-V020A	-040	552 03	A/B	74A755203
84P-V020B	-040	552 03	A/B	74A755203
84P-V028A	-040	552 05	A/B	74A755205
84P-V028B	-040	552 05	A/B	74A755205
84P-V050	-050	602 03	A	74A760203
84P-V050	-060	603 03	B	74A760303
84S-H039	-070	700 13	A/B	74A770013

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
84S-J022	-010	502 08	A	74A750208
84S-J022	-010	503 08	B	74A750308
84S-J105	-070	700 12	A/B	74A770012
84S-Y110	-070	700 46	A/B	74A770046
84T-J128	-070	700 48	A/B	74A770048
84T-J129	-070	700 48	A/B	74A770048
84T-J130	-070	700 48	A/B	74A770048
84T-J131	-070	700 48	A/B	74A770048
85A-F007	-070	700 26	A/B	74A770026
85CBC004	-070	700 42	A	74A770042
85CBC004	-070	705 42	B	74A770542
85J-F007	-070	700 26	A/B	74A770026
85M-F019	-070	701 31	A/B	74A770131
85M-S011	-070	702 00	A/B	74A770200
85M-S013	-070	702 00	A/B	74A770200
85M-T010	-070	702 00	A/B	74A770200
85M-T012	-070	702 00	A/B	74A770200
85M-U020	-070	701 32	A/B	74A770132
85M-U021	-070	701 33	A/B	74A770133
85P-F001A	-020	532 16	A	74A753216
85P-F001A	-030	533 16	B	74A753316
85P-F001B	-020	532 16	A	74A753216
85P-F001B	-030	533 16	B	74A753316
85P-F007	-020	532 16	A	74A753216
85P-F007	-030	533 16	B	74A753316
85P-G003A	-020	532 06	A	74A753206
85P-G003A	-030	533 06	B	74A753306
85P-K040A	-070	944 36	A	74R794436
85P-N002A	-060	602 25	A	74A760225
85P-N002A	-060	603 25	B	74A760325
85P-N002B	-050	602 07	A/B	74A760207
85P-N002B	-050	602 17	A/B	74A760217
85P-N002B	-050	602 18	A/B	74A760218
85P-N002B	-060	602 25	A	74A760225
85P-N002B	-060	603 25	B	74A760325
85P-N002C	-060	602 25	A	74A760225
85P-N002C	-060	603 25	B	74A760325
85P-N002D	-060	602 25	A	74A760225
85P-N002D	-060	603 25	B	74A760325
85S-F014A	-070	700 26	A/B	74A770026
85S-F014B	-070	700 26	A/B	74A770026
85S-F014C	-070	700 26	A/B	74A770026
85S-F014D	-070	700 26	A/B	74A770026
85S-F014E	-070	700 26	A/B	74A770026
85S-F014F	-070	700 26	A/B	74A770026
85S-F015A	-070	700 26	A/B	74A770026
85S-F015B	-070	700 26	A/B	74A770026
85S-F015C	-070	700 26	A/B	74A770026
85S-F015D	-070	700 26	A/B	74A770026
85S-F015E	-070	700 26	A/B	74A770026
85S-F015F	-070	700 26	A/B	74A770026
85S-F016A	-070	700 26	A/B	74A770026
85S-F016B	-070	700 26	A/B	74A770026
85S-F016C	-070	700 26	A/B	74A770026
85S-F016D	-070	700 26	A/B	74A770026
85S-F016E	-070	700 26	A/B	74A770026
85S-F016F	-070	700 26	A/B	74A770026
85S-F017A	-070	700 26	A/B	74A770026

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
85S-F017B	-070	700 26	A/B	74A770026
85S-F017C	-070	700 26	A/B	74A770026
85S-F017D	-070	700 26	A/B	74A770026
85S-F017E	-070	700 26	A/B	74A770026
85S-F017F	-070	700 26	A/B	74A770026
85S-F018A	-070	700 26	A/B	74A770026
85S-F018B	-070	700 26	A/B	74A770026
85S-F018C	-070	700 26	A/B	74A770026
85S-F018D	-070	700 26	A/B	74A770026
85S-F018E	-070	700 26	A/B	74A770026
85S-F022A	-070	700 26	A/B	74A770026
85S-F022B	-070	700 26	A/B	74A770026
85S-F022C	-070	700 26	A/B	74A770026
85S-F022D	-070	700 26	A/B	74A770026
85S-F022E	-070	700 26	A/B	74A770026
85S-F022F	-070	700 26	A/B	74A770026
85S-F023A	-070	700 26	A/B	74A770026
85S-F023B	-070	700 26	A/B	74A770026
9CBD002	-070	700 02	A/B	74A770002
9CBD002	-070	700 04	A/B	74A770004
9CBD002	-070	705 04	B	74A770504
9CBD004	-070	700 02	A/B	74A770002
9CBD006	-070	700 02	A/B	74A770002
9CBD006	-070	700 04	A/B	74A770004
9CBD006	-070	705 04	B	74A770504
9K-N001	-070	702 01	A/B	74A770201
9P-P005	-060	602 32	A/B	74A760232
9S-J003	-070	700 16	A/B	74A770016

INTRODUCTION

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

1. PURPOSE AND SCOPE.

2. This technical manual is part of a 9 volume set called the wiring repair manual (WRM). The WRM volumes provides maintenance instructions and part number information for the F/A-18A and F/A-18B aircraft.

3. This manual provides primary information for repairing electrical cables and wiring assemblies. Cable assemblies are wire bundles used on the aircraft or on attached external units. Wiring assemblies are internal wiring used in WRAs (Weapons Replaceable Assemblies).

4. This manual is prepared in work package format.

a. Work package numbers are found at the upper right corner of each page (see figure 1).

b. Work package numbers divide each of the WRM volumes into individual data units to complete a specific task.

5. The following work packages are referenced by the introduction to orientate the technician to WRM volumes.

PART IDENTIFICATION AND WIRING INFORMATION	WP002 01
EXPLANATION OF REFERENCE DESIGNATION AND AIRCRAFT SECTION DESIGNATION SYSTEM	WP002 02
WIRING REPAIR MANUAL (WRM) FORMAT	WP002 03
HOW TO USE MANUAL	WP002 04

6. ABBREVIATIONS AND SYMBOLS.

7. Each nonstandard abbreviation in this manual is explained in the glossary.

GLOSSARY

TDR - Time Domain Reflectometer
TPDR - Technical Publications Deficiency Report
WRA - Weapons Replaceable Assemblies

8. DESCRIPTION.

9. The aircraft wiring in the WRM volumes is divided into two major categories, cable assemblies and wiring assemblies.

10. **CABLE ASSEMBLIES.** Cable assemblies (wire bundles) are made of hookup wires held together by a braided outer jacket. Braided assemblies are sometimes referred to as compact wire bundles. Support data for these assemblies are located in volumes A1-F18AC-WRM-010 thru A1-F18AC-WRM-060.

11. **WIRING ASSEMBLIES.** Wiring assemblies are made of wires held together by a braided outer jacket or string ties. These assemblies are used in panel assemblies and are located in volume A1-F18AC-WRM-070

12. EFFECTIVITIES.

13. Effectivity notes on manual title pages, work package title pages, and effectivity notations (use on codes) within a work package indicated the aircraft to which the data applies. If no effectivity note appears on the work package title page, the work package has the same effectivity as shown on the manual title page. The effectivity notes (use on codes) may use:

- a. Type, model and series.
- b. Bureau number (tail number).
- c. Combination of type, model, series, and bureau number.

The table below shows examples of effectivity notes and their meanings:

Effectivity Note Examples

Effectivity Note	Definition
161359 AND UP	Applicable to all F/A-18A and F/A-18B for bureau numbers listed.
F/A-18A, F/A-18B	Applicable to all F/A-18A and F/A-18B.
F/A-18A	Applicable to all F/A-18A, but not F/A-18B.
F/A-18B	Applicable to all F/A-18B, but not F/A-18A.
F/A-18A 161353, 161359 THRU 161364	Only applicable to some bureau numbers of F/A-18A. Not applicable to any F/A-18B, even if an F/A-18B bureau number is within the numbers listed.
F/A-18B 161356 AND UP	Only applicable to some bureau numbers of F/A-18B. Not applicable to any F/A-18A, even if an F/A-18A bureau number is within the numbers listed.
161353 THRU 161359 BEFORE F18AFC-008	Applicable to all F/A-18A and F/A-18B for bureau numbers listed before modification by technical directive.

Example 1. Effectivity Note

14. **MANUAL ISSUE DATE.**

15. The manual date on the title page is the copy freeze date. No additions, deletions, or changes are made after the manual issue date, except last minute safety of flight or required maintenance changes. Data collected after the manual issue date will be included in later changes or revisions of the manual.

16. **TECHNICAL PUBLICATIONS DEFICIENCY REPORT (TPDR).**

17. The TPDR (OPNAV FORM 4790/66) is the form for reporting errors and suspected omissions in the technical manual. Reporting procedures are in OPNAV-INST 4790.2 SERIES.

18. **RECORD OF APPLICABLE TECHNICAL DIRECTIVES.**

19. All known Technical Directives (AFC's and AFB's) applicable to this manual are contained in the Record of Applicable Technical Directives list in each affected

work package (see figure 1). Some AFC's and AFB's may be listed prior to their release date. When all affected aircraft are modified, the before configuration is removed from the manual, and the technical directive entry is removed from the Record of Applicable Technical Directives in the affected work package.

20. **WARNINGS, CAUTIONS, AND NOTES.**

21. Warnings, Cautions, and Notes are used to highlight certain conditions when there is existing danger to personnel and equipment.

a. **WARNING.** To highlight a condition that could result in injury or death if correct procedures are not followed.

b. **CAUTION.** To highlight a condition that could result in damage to or destruction of equipment if correct procedures are not followed.

c. **NOTES.** To emphasize or clarify a condition or procedure.

WORK PACKAGE NUMBER

A1-F18AC-WRM-050

602 05

15 August 1984

Page 1

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA
74A760205 CENTER FUSELAGE CABLE ASSEMBLY

Reference Material

Wiring Repair With Parts Data Manual.....A1-F18AC-WRM-000
Wiring Diagrams Manual.....A1-F18A()-WDM-000

Subject	Alphabetical Index	Page No.
Legend.....		2
Parts List.....		3
Wire List.....		5

Record of Applicable Technical Directives

None

Figure 1. Typical Title Page

INTRODUCTION**ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE****UNWIRING REPAIR WITH PARTS DATA****PART IDENTIFICATION AND WIRING INFORMATION**

Reference Material

None

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package shows how typical aircraft wiring is identified, and defines some of the components of aircraft wiring. Figure 1 shows a typical cable assembly and some of the different components and identifying markers of the cable assembly.

3. ASSEMBLY PART NUMBER IDENTIFICATION MARKER. See example 1.

4. Each typical cable or wiring assembly has an assembly part number identification marker (only one per assembly) see figure 1. The cable/wiring assembly part number identification marker is located on the assemblies main trunk, near the center of the bundle. On wiring assemblies, the marker is attached to the assembly. The assembly part number identification marker is used to order a replacement cable or wiring assembly.

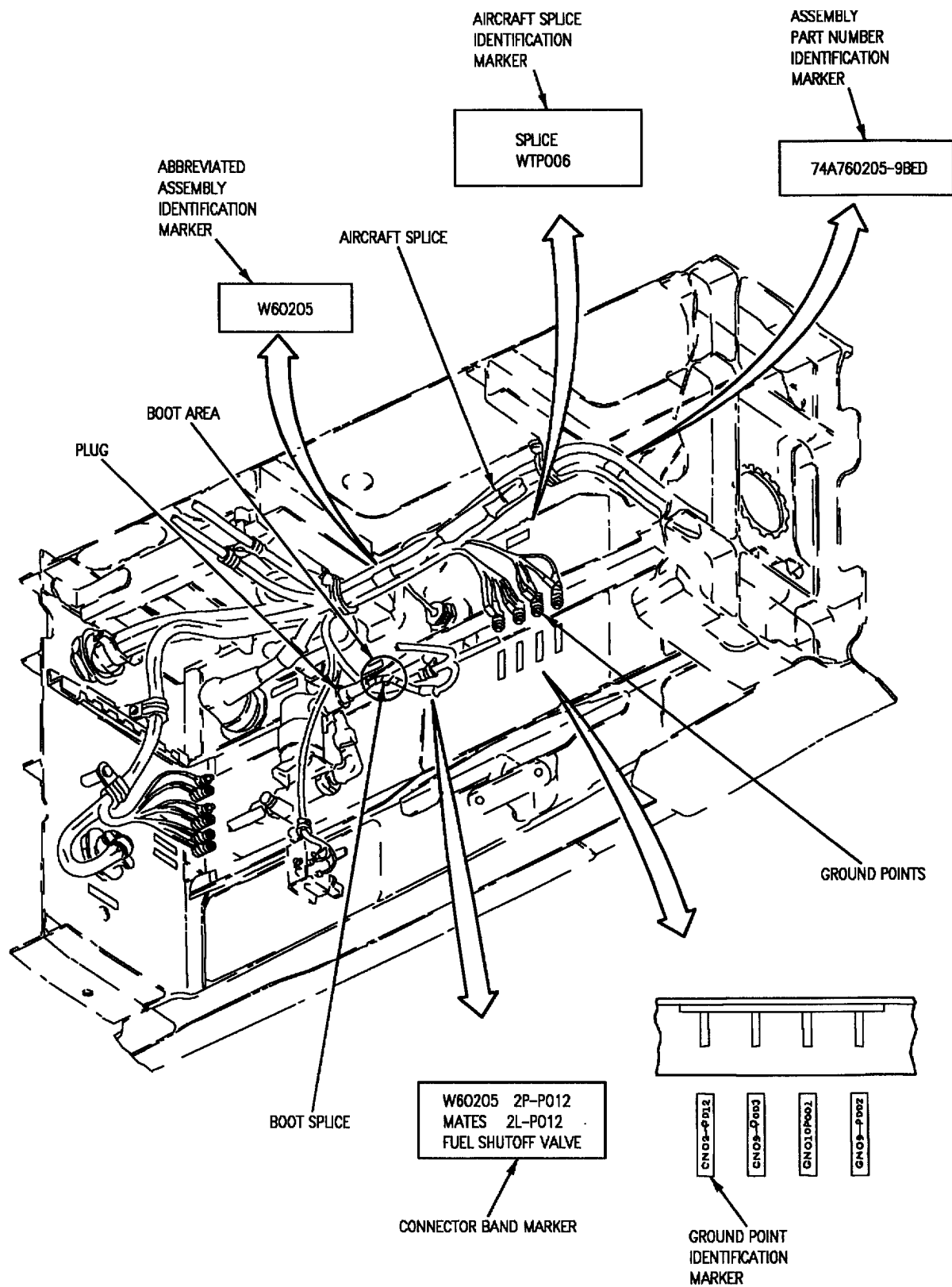
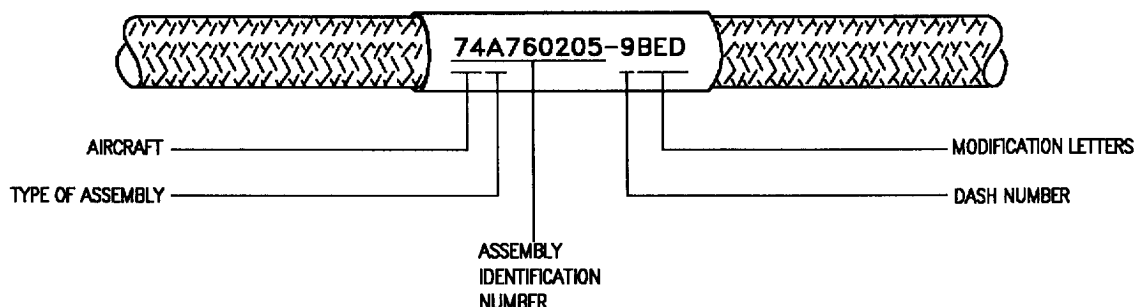


Figure 1. Typical Wiring Installation Assembly

5. The part number identification marker assigned to each McDonnell Douglas (76301) cable/wiring assembly contains the basic assembly identification number followed by a dash nine and three modification letters ranging from AAA to ZZZ. The cable/wiring assembly part number identification markers are made of two different types of material, high temperature (over

300°F) and low temperature (under 300°F). The B652-1-500BEIGE (85480) pressure sensitive, adhesive, poly-mide tape, with liner is used for high temperature areas. B637-1-500YELLOW (85480) pressure sensitive, adhesive, polyvinylfluoride tape, with liner is used for low temperature areas.



F/A-18-WRM-(520-3)01-CAT1

Example 1. Assembly Part Number Identification Marker

a. AIRCRAFT. 74 = F/A-18A and F/A-18B aircraft.

b. TYPE OF ASSEMBLY.

A - Production Assembly
R - Retrofit Assembly

c. ASSEMBLY IDENTIFICATION NUMBER.

Assembly identification numbers are assigned for each typical cable or wiring assembly located in each section of the aircraft. An assembly identification number is the same as the part number identification marker number except it lacks the assembly dash number and modification letters. Assembly identification numbers appear on the cable/wiring assembly index (WP001 01) and the reference designation index (WP001 02).

74A750001 thru 74A750999	Cockpit
74A752001 thru 74A752999	Nose

74A753001 thru 74A753999	Forward Fuselage
74A754001 thru 74A754999	Left Wing
74A755001 thru 74A755999	Right Wing
74A756001 thru 74A756999	Miscellaneous
74A760001 thru 74A760999	Center Fuselage
74A761001 thru 74A761999	Aft Fuselage
74A770001 thru 74A779999	Panel Assemblies
74R794300 thru 74R794999	Retrofit Assemblies
74R798600 thru 74R798999	Retrofit Assemblies

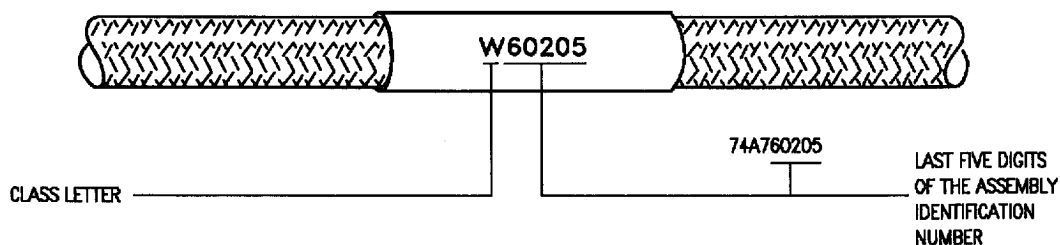
d. DASH NUMBER. Dash number will be -9.

e. MODIFICATION LETTERS. Made up of three alpha letters assigned in sequence to indicate configuration changes to an assembly.

6. **ABBREVIATED ASSEMBLY IDENTIFICATION MARKER.** See example 2.

7. The abbreviated assembly identification marker is a shortened version of the assembly identification number, see figure 1. It is made up of the last five digits of the assembly identification number preceded by a class

letter. The number of abbreviated assembly identification markers on each cable/wiring assembly varies. The markers are spaced on the branches at enough intervals that will identify the cable/wiring assembly. An explanation of abbreviated assembly identification marker is shown on example 2.



F/A-18-WRM-(520-4)01-CATI

Example 2. Abbreviated Assembly Identification Marker

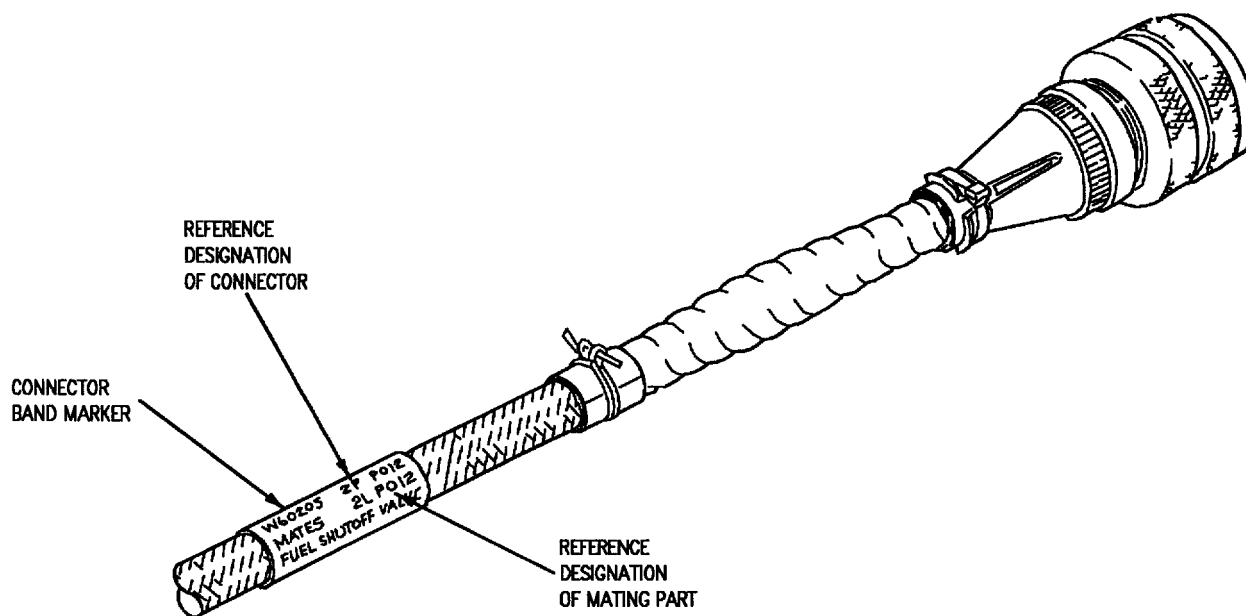
a. **CLASS LETTER.** Cable and wiring assemblies are always Class W.

b. **LAST FIVE DIGITS OF THE ASSEMBLY IDENTIFICATION NUMBER.** This portion of the assembly identification number identifies the cable or wiring assembly.

8. **CONNECTOR BAND MARKER.** See example 3.

9. There is one marker 9 inches from each connector, see figure 1. Connector band markers are assigned a

reference designation number to identify and locate the connector and its mating connector as described in example 3. For description and definition of reference designation numbers, see WP002 02.



F/A-18-WRM-(520-5)01-CATI

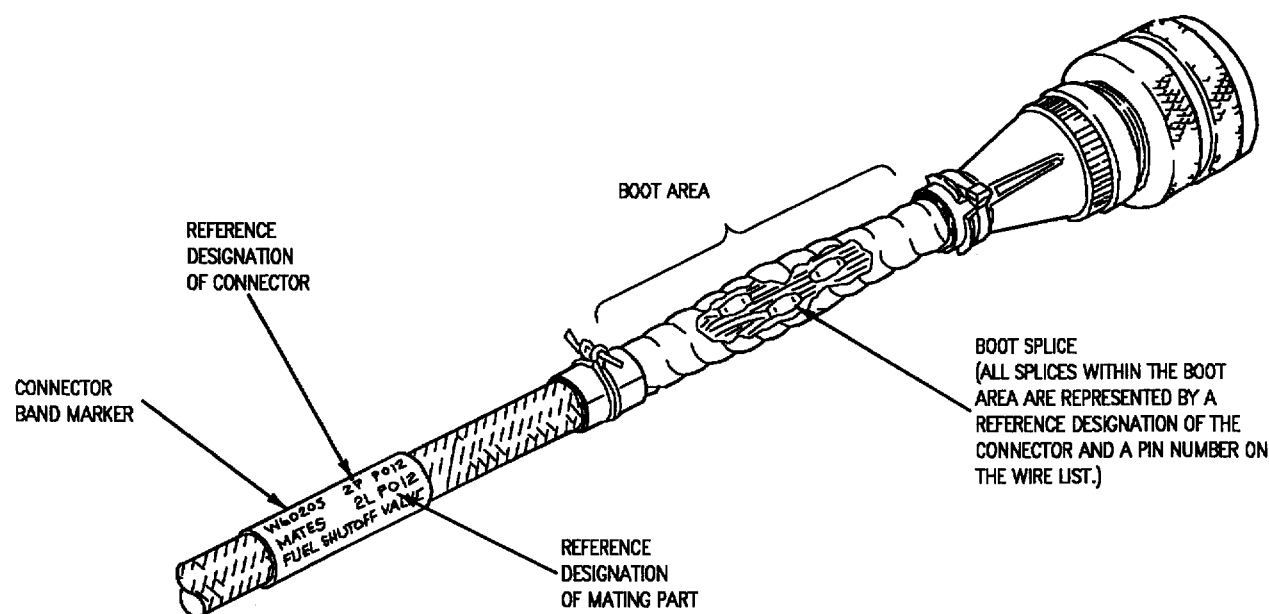
Example 3. Connector Band Identification Marker

10. **BOOT AREA.** See figure 1.

11. This is the part of a bundle directly behind the electrical connector and up to the bundle braid. The boot area allows access to the electrical contacts and splices.

12. **BOOT SPLICES.** See example 4.

13. Joins two or more wires within same cable/wiring assembly, see figure 1. Splices are made within boot area of a connector. Boot splices are assigned a reference designation and pin number as described in example 4.



F/A-18-WRM-(520-6)01-CAT I

Example 4. Boot Splices

a. **REFERENCE DESIGNATION:** The identification of an item in which the Boot Splice is made.

b. **PIN NUMBER:** Numbers S001 through S999 indicate two or more wires spliced together within same cable assembly.

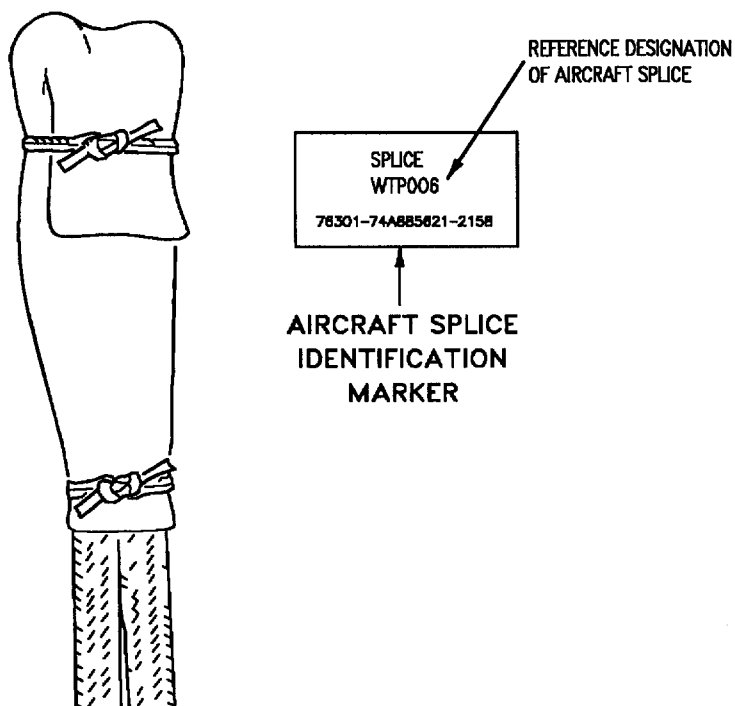
NOTE

Wires with same pin numbers are spliced together. Pin numbers are used within manual only. They are not identified on the aircraft.

14. AIRCRAFT SPLICE IDENTIFICATION MARKER. See example 5.

15. There is one marker in the general area of the aircraft splice on the structure, see figure 1. Aircraft

splice identification markers are assigned a reference designation number to identify and locate the aircraft splice as described in example 5.



F/A-18-WRM-(520-7)01-SCAN

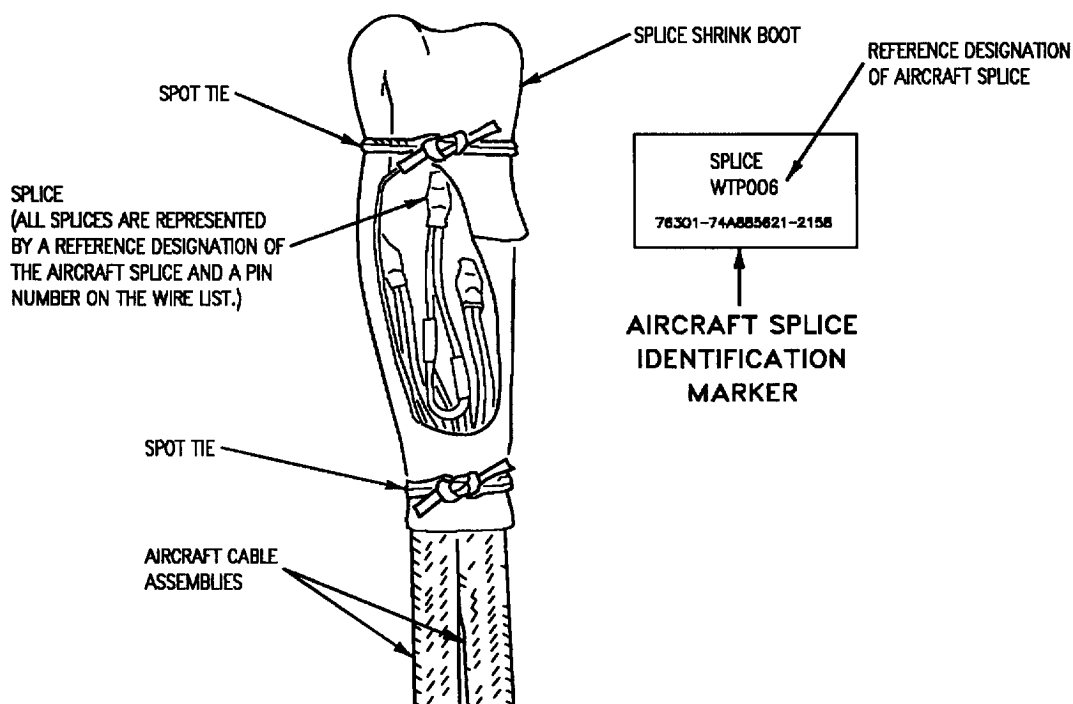
Example 5. Aircraft Splice Identification Marker

16. **AIRCRAFT SPLICES.** See example 6.

17. Joins two or more cable assemblies, see figure 1. Aircraft splices are assigned a reference designation, see work package 002 02 and a pin number as described in Example 6.

a. **REFERENCE DESIGNATION:** The identification of an item in which the aircraft splice is made.

b. **PIN NUMBER:** Wires with same pin numbers are spliced together. Pin numbers are used within manual only. They are not identified on the aircraft.



F/A-18-WRM-(520-8)01-SCAN

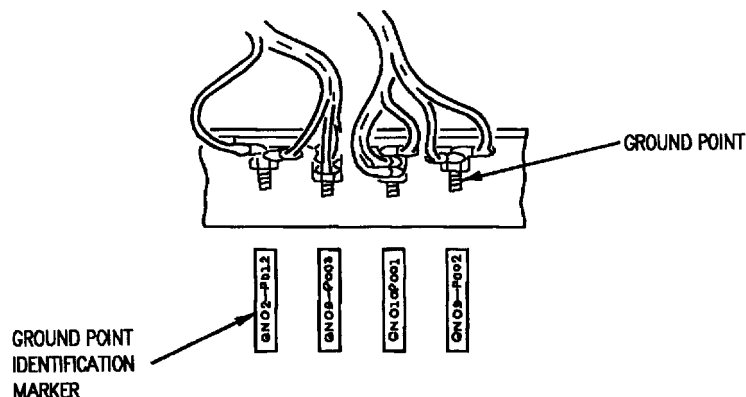
Example 6. Aircraft Splices

18. GROUND POINT IDENTIFICATION MARKER. See example 7.

19. Ground point identification markers are assigned a reference designation and a pin number, see figure 1.

a. REFERENCE DESIGNATION: The identification of an item in which the ground termination is made, see work package 002 02.

b. PIN NUMBER. Wires with same pin number are crimped in common terminal.



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Example 7. Ground Point Identification Marker**20. WIRE NUMBER IDENTIFICATION SLEEVING.**

21. For all wire identification use shrinkable sleeving (MMS-809 thin wall or bandolier) (table 1).

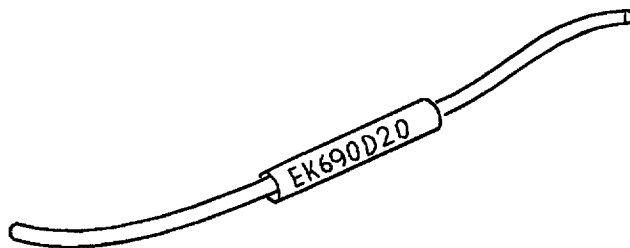
Select sleeving color per last digit of wire number. See example 8. On multiple wire identification use a white sleeve.

EK690D20
 └──────────┘ Use For Color Code
 Of MMS-809 Sleeving

F/A-18-WRM-(500-1)01-CATI

Example 8. Color Code of MMS-809 Sleeving

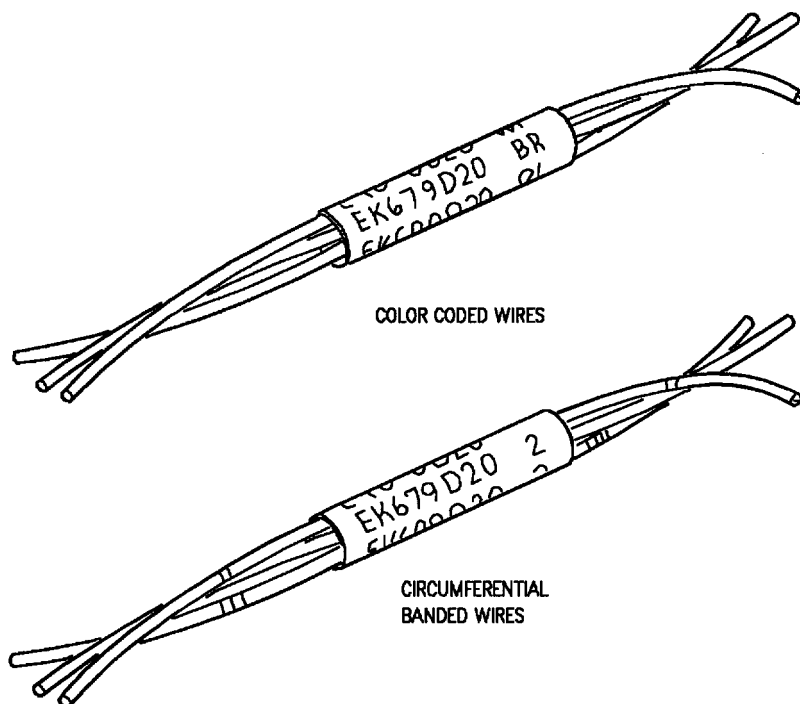
a. SINGLE WIRES. Wire sleeving is used on single wires marked with wire number only. See example 9.



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Example 9. Single Wire Number Identification Sleeving

b. TWISTED WIRES. Twisted wires are band number or wire color code. Table 2 identifies marked as a group with wire number and either band definition. See example 10.



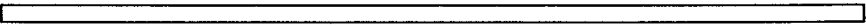
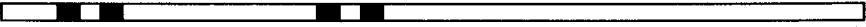


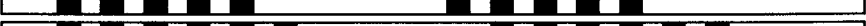
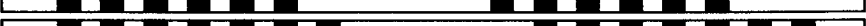
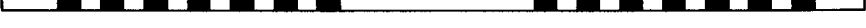
F/A-18-WRM-(520-11)01-SCAN

Example 10. Twisted Wire Number Identification Sleeving

Table 1. MMS-09 Sleeving

Part Number	Vendor	Before Shrinking Minimum (Inch)	After Shrinking Maximum (Inch)	Type Sleeving
MMS-809-*-3/64	76301	3/64	1/32	STANDARD WALL
MMS-809-*-1/16	76301	1/16	1/32	STANDARD WALL
MMS-809-*-3/32	76301	3/32	3/64	STANDARD WALL
MMS-809-*-1/8	76301	1/8	1/16	STANDARD WALL
MMS-809-*-1/16	76301	1/16	3/32	STANDARD WALL
MMS-809-*-1/4	76301	1/4	1/8	STANDARD WALL
MMS-809-*-3/8	76301	3/8	3/16	STANDARD WALL
MMS-809-*-1/2	76301	1/2	1/4	STANDARD WALL
MMS-809-*-3/4	76301	3/4	3/8	STANDARD WALL
MMS-809-*-1	76301	1	1/2	STANDARD WALL
MMS-809-*-1-1/2	76301	1-1/2	3/4	STANDARD WALL
MMS-809-*-2	76301	2	1	STANDARD WALL
MMS-809-*-3	76301	3	1-1/2	STANDARD WALL
MMS-809-*-4	76301	4	2	STANDARD WALL
MMS-809-*-T1/16	76301	1/16	1/32	THIN WALL
MMS-809-*-T3/32	76301	3/32	3/64	THIN WALL
MMS-809-*-T1/8	76301	1/8	1/16	THIN WALL
MMS-809-*-T3/16	76301	3/16	3/32	THIN WALL
MMS-809-*-T1/4	76301	1/4	1/8	THIN WALL
MMS-809-*-B3/32	76301	3/32	1/32	BANDOLIER
MMS-809-*-B1/8	76301	1/8	3/64	BANDOLIER
MMS-809-*-B3/16	76301	3/16	3/32	BANDOLIER
MMS-809-*-B1/4	76301	1/4	1/8	BANDOLIER
USE HT-900 HEAT TOOL TO SHRINK SLEEVE TEMPERATURE RANGE: -65° TO 300°F				
* COLOR CODE		INK STRIP		
COLOR	CODE	COLOR	COMPANY	
BLACK	0	YELLOW	RAYCHEM	
BROWN	1	GREEN	RAYCHEM	
RED	2	ORANGE	EEC	
ORANGE	3	BLUE	EEC	
YELLOW	4	RED	PENNTUBE	
GREEN	5	VIOLET	PENNTUBE	
BLUE	6			
VIOLET	7			
GRAY	8			
WHITE	9			

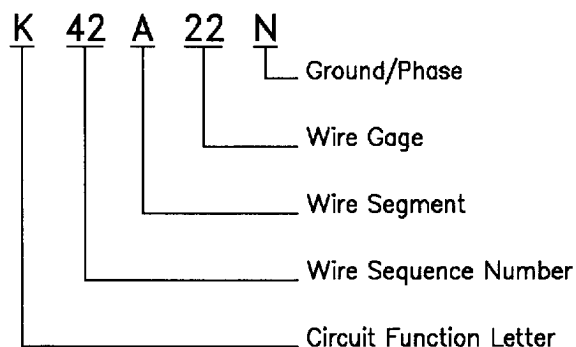
Table 2. Band Definition

WIRE BAND NUMBER	CIRCUMFERENTIAL BAND IDENTIFICATION MARKING
1	
2	
3	
4	
5	
6	
7	
BAND COLORS BLACK- 16 THRU 24 GAGE WHITE- 26 GAGE	

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22. **WIRE NUMBER.** See example 11.

23. Aircraft wires are assigned a wire identification number as described in example 11.



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Example 11. Wire Number

a. **CIRCUIT FUNCTION LETTER.** The circuit function letter indicates the circuit within a particular system.

b. **WIRE NUMBER.** The wire number indicates the numerical sequence of this wire in a particular circuit.

c. **WIRE SEGMENT.** The wire segment is a letter designation that is used to identify a particular wire in a series used within a circuit.

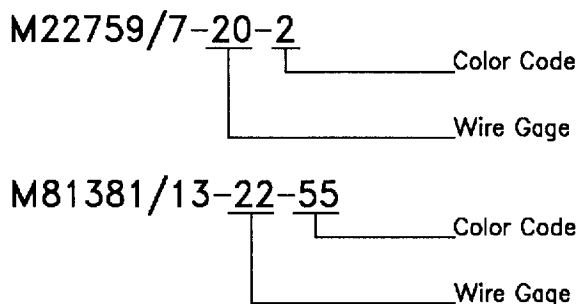
d. **WIRE GAGE.** The wire gage gives the American Wire Gage (AWG) size of wire. A shield is represented by SH in the wire gage.

e. GROUND/PHASE. The ground/phase suffix letter (when applicable) identifies a particular function of wire segment. An explanation of the suffix letters are as follows:

- A = A wire that carries phase A power.
- B = A wire that carries phase B power.
- C = A wire that carries phase C power.
- N = A ground wire.

24. WIRE GAGE COLOR IDENTIFICATION. See example 12.

25. Most of the wiring on the aircraft are gage color coded. Gage and insulation color codes are identified in table 3.



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Example 12. Wire Gage Color Identification

Table 3. Wire Gage Color Code

Wire Gage	Wire Insulation Color	Color Code Dash Number (Used With Military Part Number)
26	BLACK	0
24	BLUE	6
22	GREEN	5
22	GREEN/GREEN STRIPE	55
22	GREEN/WHITE STRIPE	59
20	RED	2
18	WHITE	9
16	BLUE	6
14	GREEN	5
12	YELLOW	4
10	BROWN	1
8	RED	2

WARNING

TT-L-32 Type II paint is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

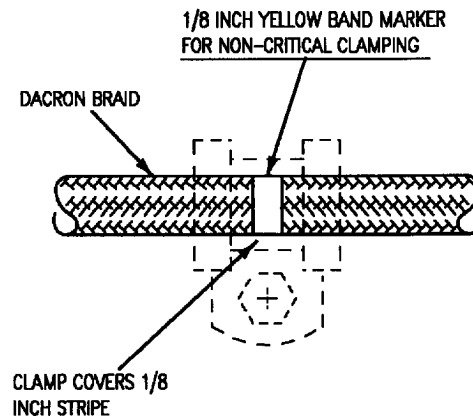
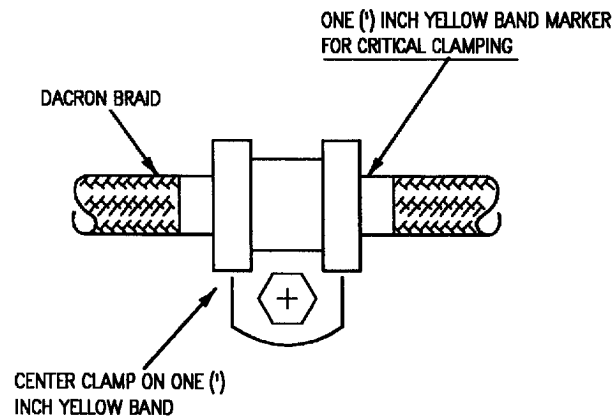
26. **YELLOW BAND MARKERS.** See example 13.

27. Yellow band markers for braided compact wire bundles are painted, using brush or spray. Paint used is type II, Part Number TT-L-32, color light yellow (color number 13655). There are two types of yellow band markers. One type is used to indicate non-critical clamping. The other is used to indicate critical clamping.

a. A non-critical yellow band marker is 1/8 inch wide. The clamp covers the marker but does not have to be centered.

b. A critical band marker is 1 inch wide. The clamp is centered on the yellow band marker with equal amounts of paint showing on each side of the clamp.

28. Non-critical yellow band markers for coaxial cables may be taped or painted. Use MIL-T-23142 1/8 inch wide yellow tape or paint (Paragraph 27). Critical band markers are all painted (Paragraph 27).



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Example 13. Yellow Band Markers

INTRODUCTION

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

EXPLANATION OF REFERENCE DESIGNATION AND AIRCRAFT SECTION DESIGNATION SYSTEM

Reference Material

None

Record of Applicable Technical Directives

None

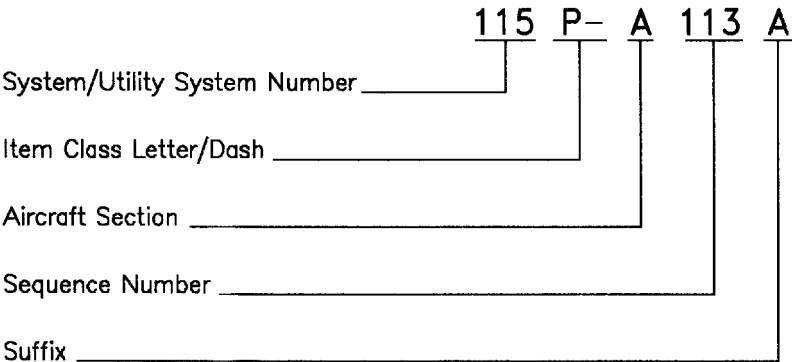
1. INTRODUCTION.

2. The reference designation is a system of identification and description for electrical parts or items. Each electrical part or item within the aircraft is assigned a unique combination of letters and numbers which is the reference designation. These reference designations are labeled on identification markers close to electrical parts or items. These reference designations are divided

into three major categories, electrical components, aircraft splices, and ground points.

3. ELECTRICAL COMPONENT REFERENCE DESIGNATIONS. See example 1.

4. Electrical component reference designations are assigned to aircraft electrical parts as listed in item class letter/dash paragraph.



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Example 1. Electrical Component Reference Designation

a. SYSTEM/UTILITY SYSTEM NUMBER. Sytem/utility number is a numerical code, made to identify a

specific system of the aircraft. An explanation of this numerical code is as follows.

System/Utility System Number Nomenclature	System No.
ELECTRICAL POWER	01
AUX POWER UNIT	02
ENGINE START	03
OVERHEAT/FIRE DETECTION & EXTINGUISH	04
FUEL	05
RESERVED	06
EXTERIOR LIGHTING	07
INTERNAL LIGHTING	08
ENGINE ANTI-ICE	09
HYDRAULIC PRESSURE SENSING	10
RESERVED	11
LANDING GEAR	12
BRAKING (ANTI SKID)	13
RESERVED	14
OXYGEN GAGING	15
RESERVED	16
WING FOLD	17
SPEED BRAKE	18
ARRESTING HOOK	19
CANOPY/BOARDING LADDER	20
RESERVED	21
ENVIRONMENTAL CONTROL	22
WINDSHIELD ANTI-ICE	23
BLEED AIR LEAK DETECTION	24
SEAT ADJUST	25
RESERVED	26
RESERVED	27
PROBE HEATERS	28
RESERVED	29
RESERVED	30
RESERVED	31
RESERVED	32
STANDBY INSTRUMENTS	33
ANGLE OF ATTACK APPROACH LIGHTS	34
RESERVED	35 THRU 49
RESERVED (UTILITY)	50 THRU 58
ANTENNA GROUP	59
RADAR	60
STORES MANAGEMENT/FUZE FUNCTION/HARM/AMAC	61
RESERVED	62
RESERVED	63
COUNTERMEASURE	64
CHAFF COUNTERMEASURES	65
INTERFERENCE BLANKER	66
ELECTRONIC ALTIMETER	67
INERTIAL NAVIGATION	68
TACAN	69
AIR DATA COMPUTER/TOTAL TEMP PROBE/ANGLE OF ATTACK	70
DIRECTION FINDER	71
RADAR BEACON & AUG RECEIVER	72
RESERVED	73

System/Utility System Number Nomenclature	System No.
ILS	74
MAGNETIC AZIMUTH DETECTOR	75
UHF/SECURE VOICE/INTERCOMM/VHF	76
DATA LINK	77
IFF	78
HEAD UP DISPLAY	79
MULTIPURPOSE DISPLAY	80
RESERVED	81
COMM SYS CONTROL	82
MISSION COMPUTER	83
FLIGHT CONTROL	84
RECORDING/MONITORING	85

b. ITEM CLASS LETTER/DASH. Item class letter is an alphabetical code used to identify what type of item a part is. An description of the class letter is as follows:

A - Panels and Controls Units
 B - Actuator
 E - Antenna
 J - Receptacle
 K - Relay
 L - Solenoid Operated Valve
 M - Sensor
 P - Plug
 R - Resistor
 S - Switch
 T - Transformer
 X - Contactors
 AT - Attenuators
 CB - Circuit Breakers
 CP - Connector Adapter
 CR - Diode
 DC - Coupler
 DS - Lamp
 FL - Filter

MT - Transducer
 SQ - Electric Squib
 TB - Terminal Board

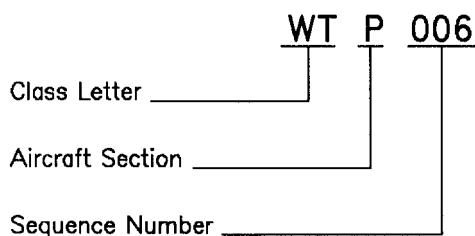
c. AIRCRAFT SECTION. The section of aircraft in which the part is located. See figure 1.

d. SEQUENCE NUMBER. Each system and utility system has a separate sequence number series ranging from 1 through 999. Each component of a system or utility system is assigned a sequence number consecutively without relationship to location in the aircraft. Mating components have the same sequence number.

e. SUFFIX. Suffix is used where a unit has more than one connector.

5. AIRCRAFT SPLICE REFERENCE DESIGNATION.

6. Aircraft splice reference designations are assigned to wire tie points as described in example 2.

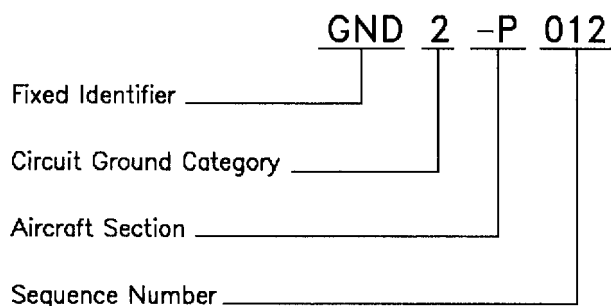


Example 2. Aircraft Splice Reference Designation

- a. CLASS LETTERS: WT - Wire tie point.
- b. AIRCRAFT SECTION: For explanation of aircraft section, see figure 1.
- c. SEQUENCE NUMBER: Each aircraft section contains a number series 1 through 999.

7. GROUND POINT REFERENCE DESIGNATION.

8. Ground point reference designations are assigned to aircraft ground points as described in example 3.



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Example 3. Ground Point Reference Designation

a. FIXED IDENTIFIER GROUND - (GND)

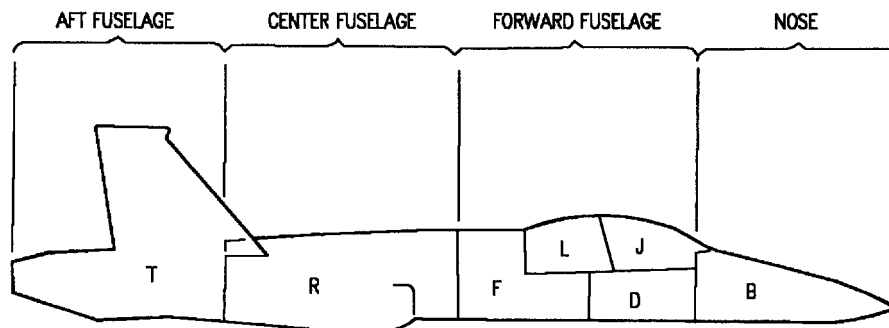
b. CIRCUIT GROUND CATEGORY

- 1 - Left Hand AC Ground
- 2 - AC Ground
- 3 - Signal Ground
- 4 - Right Hand AC Ground
- 5 - 26 Volt AC Ground
- 6 - Left Hand AC Panel Ground

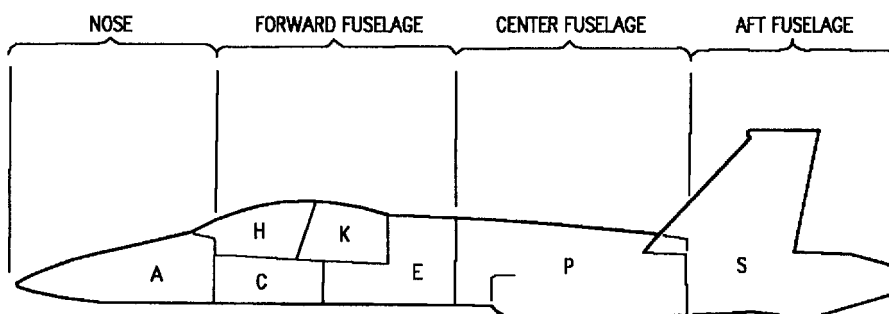
- 7 - DC Panel Ground
- 8 - Right Hand AC Panel Ground
- 9 - Case Ground
- 10 - Shield Ground

c. AIRCRAFT SECTION. See figure 1.

d. SEQUENCE NUMBER. Each aircraft section contains a sequence number series 1 through 999.



RIGHT SIDE VIEW



LEFT SIDE VIEW

NOTE

THE AIRCRAFT SECTION LETTER OF THE
ELECTRICAL REFERENCE DESIGNATION NUMBER
DEFINES THE LOCATION OF THE ITEM
EXAMPLE

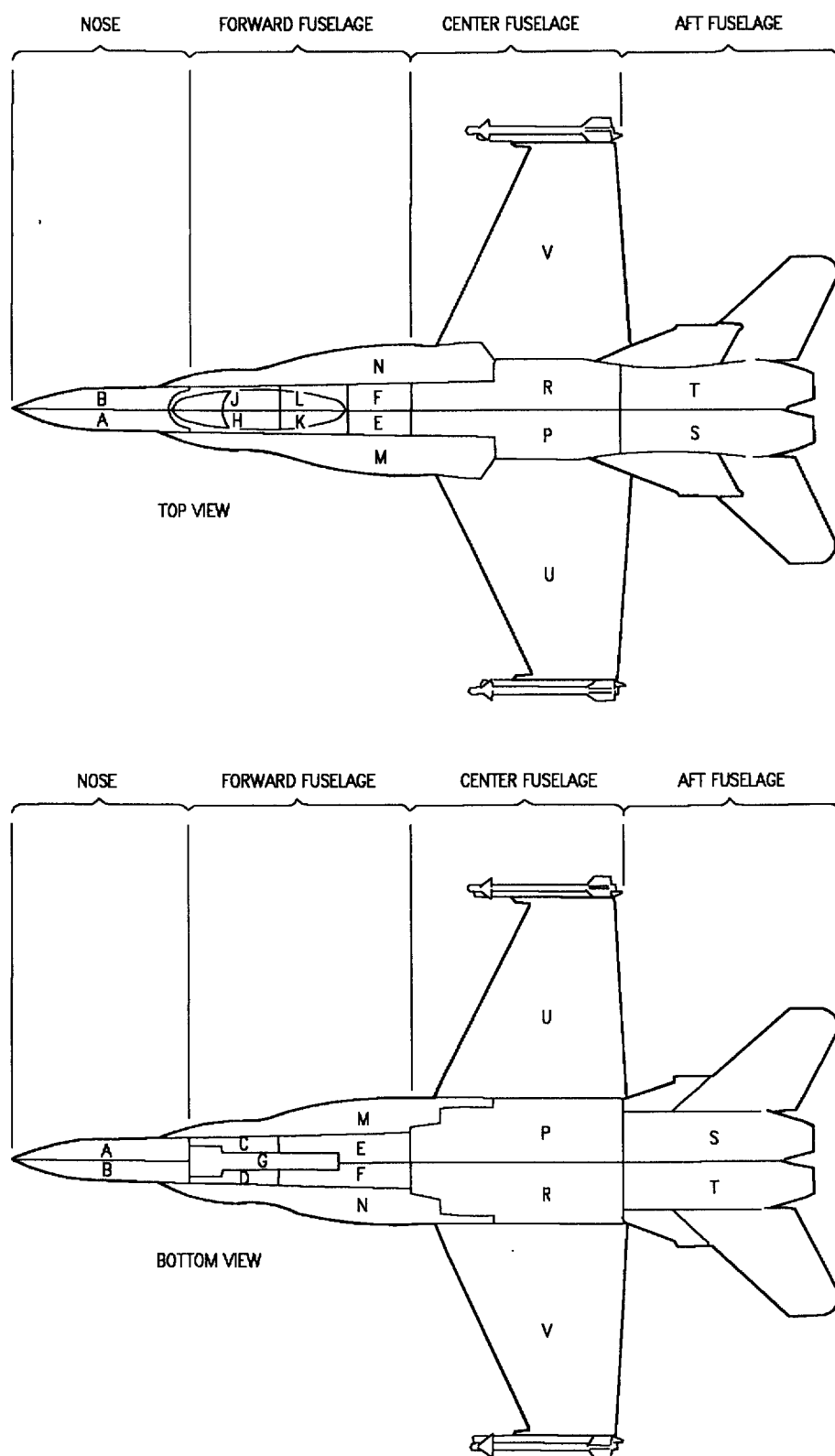
84A-G035

AIRCRAFT SECTION LETTER

SECTION LETTER	AREA	SECTION LETTER	AREA
A	NOSE (L SIDE)	N	LEADING EDGE EXIT (R SIDE)
B	NOSE (R SIDE)	P	CENTER FUSELAGE (L SIDE)
C	NO. 2 EQUIPMENT BAY (L SIDE)	R	CENTER FUSELAGE (R SIDE)
D	NO. 2 EQUIPMENT BAY (R SIDE)	S	AFT FUSELAGE (L SIDE)
E	NO. 3 EQUIPMENT BAY (L SIDE)	T	AFT FUSELAGE (R SIDE)
F	NO. 3 EQUIPMENT BAY (R SIDE)	U	WING (LEFT)
G	NOSE GEAR WELL	V	WING (RIGHT)
H	COCKPIT (L SIDE)	W	WING PYLONS (NOT SHOWN)
J	COCKPIT (R SIDE)	X	RESERVED
K	AFT COCKPIT/UPPER EQUIPMENT BAY (L SIDE)	Y	PANELS AND MISCELLANEOUS (NOT SHOWN)
L	AFT COCKPIT/UPPER EQUIPMENT BAY (R SIDE)	Z	CENTERLINE PYLON (NOT SHOWN)
M	LEADING EDGE EXIT (L SIDE)		

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Figure 1. Reference Designation Aircraft Section Identification (Sheet 1)



F/A-18-WRM-(520-15)01-SCAN

Figure 1. Reference Designation Aircraft Section Identification (Sheet 2)

INTRODUCTION**ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE****WIRING REPAIR WITH PARTS DATA****WIRING REPAIR MANUAL (WRM) FORMAT**

Reference Material

None

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package explains the format of the Wiring Repair Manual (WRM) Volumes and description of each of the sections.

3. The WRM is a 9 volume set. All of the WRM volumes are referenced to each other to help the technician find the proper wiring data.

4. WIRING REPAIR MANUAL (WRM) VOLUMES.

5. This manual consists of the following WRM volumes:

**WRM VOLUME
NUMBER****WRM VOLUME TITLE**

A1-F18AC-WRM-000

WIRING REPAIR WITH PARTS DATA, GENERAL WIRING REPAIR PROCEDURES

A1-F18AC-WRM-001

WIRING REPAIR WITH PARTS DATA, GENERAL WIRING REPAIR PROCEDURES

A1-F18AC-WRM-010

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A750001 THROUGH 74A750999

A1-F18AC-WRM-020

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A752001 THROUGH 74A753220

A1-F18AC-WRM-030

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A753221 THROUGH 74A753999

A1-F18AC-WRM-040

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A754001 THROUGH 74A756999

A1-F18AC-WRM-050

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A760001 THROUGH 74A760219

A1-F18AC-WRM-060

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A760220 THROUGH 74A761999

A1-F18AC-WRM-070

WIRING REPAIR WITH PARTS DATA CABLE ASSEMBLIES 74A770001 THROUGH 74A779999, 74R794300 THROUGH 74R799999 AND MISCELLANEOUS CABLE ASSEMBLIES

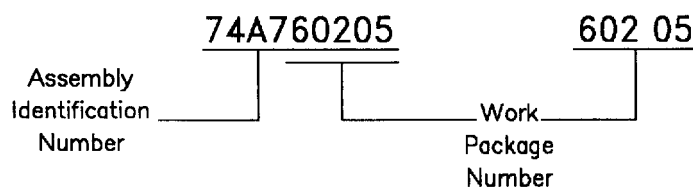
6. WIRING REPAIR MANUAL (WRM) VOLUME FORMAT.

7. Figure 1 shows how each of the WRM volumes are laid out and the relationship of each WRM volume to the other WRM volumes.

a. The electrical repair procedures volume (A1-F18AC-WRM-000) is arranged in numerical work package number.

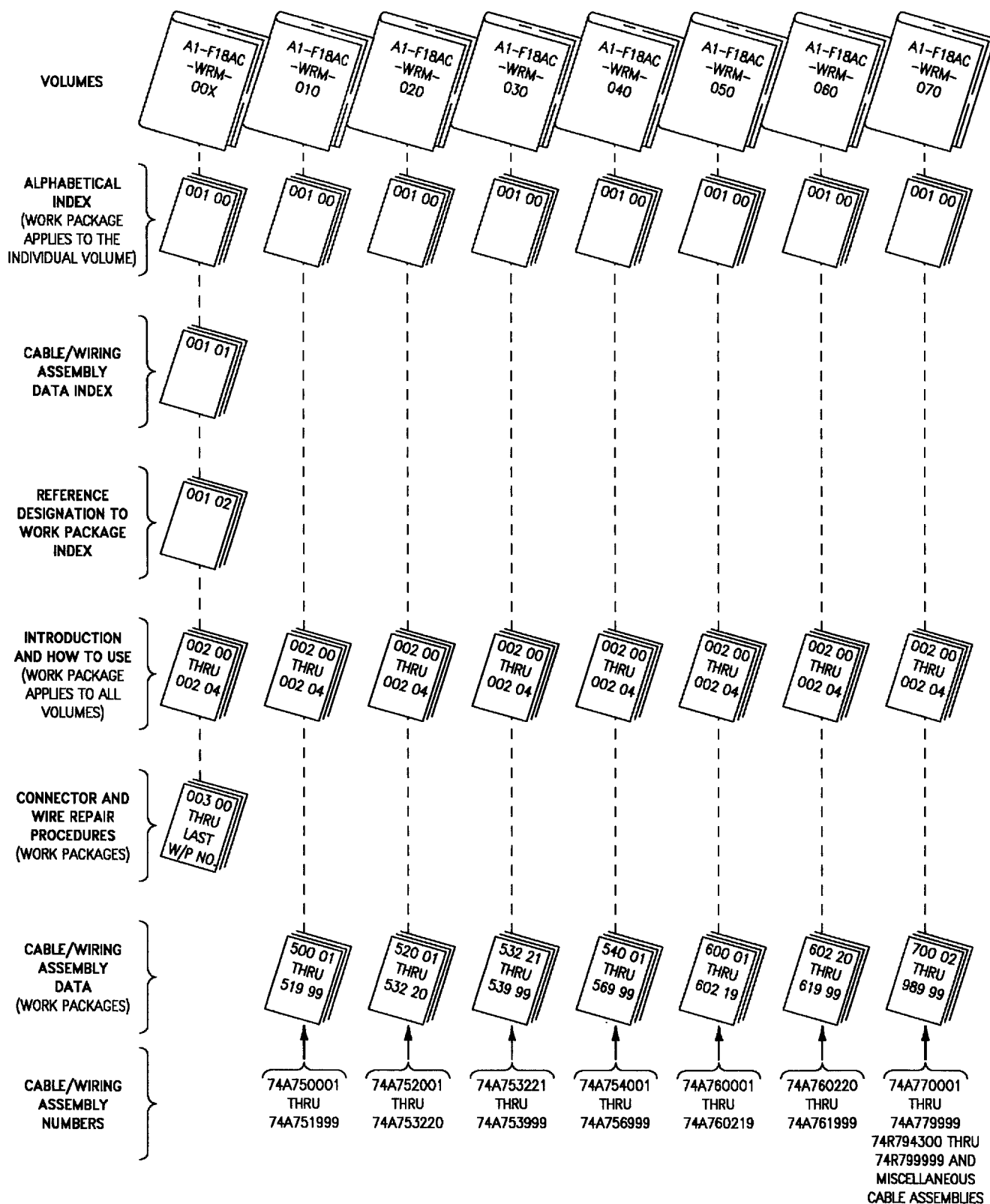
b. The cable or wiring assembly work packages found in volume A1-F18AC-WRM-010 through A1-F18AC-WRM-070 are numbered by the last five digits of each McDonnell Douglas (CAGE 76301) cable assembly or wiring assembly number. See example 1.

c. Work packages 002 00 through 002 04 are common in all volumes of A1-F18AC-WRM-000 through A1-F18AC-WRM-070.



F/A-18-WRM-(500-7)01-CAT I

Example 1. Work Package Number



F/A-18-WRM-(178-2)02-CATI

Figure 1. A1-F18AC-WRM-000 thru A1-F18AC-WRM-070 Volume Format

8. MAJOR SECTIONS OF THE WRM VOLUMES.

9. The WRM volumes are divided into six major groups of work packages as listed below:

ALPHABETICAL INDEX

CABLE/WIRING ASSEMBLY DATA INDEX

REFERENCE DESIGNATION INDEX

INTRODUCTION AND HOW TO USE

CONNECTOR AND WIRE REPAIR
PROCEDURES

CABLE/WIRING ASSEMBLY DATA

10. **ALPHABETICAL INDEX.** See figure 2.

11. Each volume has an alphabetical index (WP001 00) in the front of each manual. The alphabetical index is an alphanumeric listing of the titles and the corresponding work package numbers for that volume.

a. **TITLE.** The title of the work packages found in that volume.

b. **WP NUMBER.** The work package number that corresponds to the titles in that volume.

A1-F18AC-WRM-050		001 00
15 August 1984		Page 1
ALPHABETICAL INDEX		
WIRING REPAIR WITH PARTS DATA		
Title		WP Number
74A760118 Center Fuselage Cable Assembly		601 18
74A760119 Center Fuselage Cable Assembly		601 19
74A760120 Center Fuselage Cable Assembly		601 20
74A760201 Center Fuselage Cable Assembly		602 01
74A760202 Center Fuselage Cable Assembly		602 02
74A760203 Center Fuselage Cable Assembly		602 03
74A760204 Center Fuselage Cable Assembly		602 04
74A760205 Center Fuselage Cable Assembly		602 05
74A760206 Center Fuselage Cable Assembly		602 06
74A760207 Center Fuselage Cable Assembly		602 07
74A760208 Center Fuselage Cable Assembly		602 08
74A760209 Center Fuselage Cable Assembly		602 09
74A760211 Center Fuselage Cable Assembly		602 11
74A760212 Center Fuselage Cable Assembly		602 12
74A760213 Center Fuselage Cable Assembly		602 13

Figure 2. Typical Alphabetical Index

12. CABLE/WIRING ASSEMBLY DATA INDEX. See figure 3.

13. The cable/wiring assembly data index (WP001 01) is found in A1-F18AC-WRM-000 only. It is an alpha-numeric listing of the assembly identification numbers and the corresponding WRM volume and work package number for each cable/wiring assembly.

a. ASSEMBLY IDENTIFICATION. The assembly identification is a listing for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070. See WP002 01 for definition of assembly identification number.

b. CABLE ASSEMBLY TITLE. The title of the cable/wiring assembly data work package.

c. A1-F18AC-WRM (VOLUME NUMBER). The volume number of the cable/wiring assembly data of that assembly.

d. WORK PACKAGE NUMBER. The work package number of the cable/wiring assembly data work package of that assembly.

A1-F18AC-WRM-000			001 01
			Page 9
CABLE/WIRING ASSEMBLY DATA INDEX (Continued)			
ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A760111	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 11
74A760112	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 12
74A760113	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 13
74A760116	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 16
74A760117	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 17
74A760118	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 18
74A760119	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 19
74A760120	CENTER FUSELAGE CABLE ASSEMBLY	-050	601 20
74A760201	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 01
74A760202	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 02
74A760203	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 03
74A760204	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 04
74A760205	CENTER FUSELAGE CABLE ASSEMBLY	-050	602 05

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Figure 3. Typical Cable/Wiring Assembly Data Index

14. REFERENCE DESIGNATION TO WORK PACKAGE INDEX. See figure 4.

15. The reference designation to work package index (WP001 02) is found in A1-F18AC-WRM-000 only. It is an alphanumeric listing of the reference designation and the corresponding volume number, work package number model, and assembly identification number.

a. REFERENCE DESIGNATION. See WP002 02.

b. A1-F18AC-WRM (VOLUME NUMBER). The volume number of the cable/wiring assembly data work

packages or connector repair procedures that contains the corresponding reference designation.

c. WORK PACKAGE NUMBER. The work package number of the part and wire data work package or connector repair procedures.

d. MODEL. The model is only listed for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070 for the corresponding reference designation.

e. ASSEMBLY IDENTIFICATION. The assembly identification is a listing for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070. See WP002 01 for definition of assembly identification number.

A1-F18AC-WRM-000					001 02
					Page 36
REFERENCE DESIGNATION TO WORK PACKAGE INDEX					
REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION	
22K-D055	-030	536 12	F	74A753612	
22K-D055	-030	537 11	TF	74A753711	
22K-D055	-030	537 12	TF	74A753712	
22K-D168	-070	700 04	F	74A770004	
22K-D168	-070	705 04	TF	74A770504	
22K-D169	-070	705 04	TF	74A770504	
22K-E001	-070	720 07	F	74A772007	
22K-E001	-070	725 07	TF	74A772507	
22K-E038	-070	720 07	F	74A772007	
22K-E038	-070	725 07	TF	74A772507	
22K-E039	-070	720 07	F	74A772007	
22K-E039	-070	725 07	TF	74A772507	
22K-E144	-070	720 07	F	74A772007	
22K-E144	-070	725 07	TF	74A772507	
22K-E145	-070	720 07	F	74A772007	
22K-E145	-070	725 07	TF	74A772507	
22K-E158	-070	720 07	F	74A772007	
22K-E158	-070	725 07	TF	74A772507	
22K-E160	-070	720 07	F	74A772007	
22K-E160	-070	725 07	TF	74A772507	
22K-E175	-070	720 07	F	74A772007	
22K-E175	-070	725 07	TF	74A772507	

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Figure 4. Typical Reference Designation to Work Package Index

16. INTRODUCTION AND HOW TO USE.

17. The introduction is used to orient the technician to the wiring repair manual. It is divided into 5 work packages as listed below:

INTRODUCTION	WP002 00
PART IDENTIFICATION AND WIRING INFORMATION	WP002 01
EXPLANATION OF REFERENCE DESIGNATION AND AIR- CRAFT SECTION DESIGNATION SYSTEM	WP002 02
MANUAL FORMAT	WP002 03
HOW TO USE MANUAL	WP002 04

18. CONNECTOR AND WIRE REPAIR PROCEDURES WORK PACKAGES.

19. The connector and wire repair procedures are contained in volume A1-F18AC-WRM-000. The procedures cover repair of connectors and general aircraft wiring. The individual work package provides a list of support equipment required, list of materials required, and repair procedures to do an electrical repair.

20. CABLE/WIRING ASSEMBLY DATA WORK PACKAGES.

21. Each cable/wire assembly work package contains a title page, legend page, parts list and wire list.

22. **LEGEND PAGE.** See figure 5.

23. Each legend page may contain general note(s), use on code(s) and note(s).

24. **GENERAL NOTE(S).** General note(s) appear first, and are always numbered. They contain information applicable to the parts list, the wire list, or the complete assemblies. These notations are always applicable for all of the aircraft identified on the work package title page. General note(s) explanations appear on page 2 of Cable and Wiring Assembly Work Packages for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

25. **USE ON CODE(S).** Use on codes are two letter notes used to identify production and retrofit aircraft

effectivities within the assembly. These notations are used to indicate to the technician, those part(s) and or wire(s) that are not applicable to all of the aircraft identified on the work package title page. Use on Code explanations appear on page 2 of Cable and Wiring Assembly Work Packages for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

26. **NOTE(S).** Notes define two letter notes found in the note column of the part and wire lists. These notes are used to signify special instructions within the parts and wire table lists. Explanations of note(s) appear on page 2 of Cable and Wiring Assembly Work Packages for volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

A1-F18AC-WRM-050		602 05
		Page 2
LEGEND		
NOTE(S)		
AA	NOTED CONNECTOR SHALL BE PINNED AFTER THE CABLE ASSEMBLY IS INSTALLED IN AIRCRAFT.	
AC	METAL BRAIDED PIGTAIL.	
BA THRU HZ	TWO CONDUCTORS CARRYING THE SAME NOTE ARE TWISTED TOGETHER.	

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Figure 5. Typical Legend Page

27. **PARTS LIST.** See figure 6.

28. Each aircraft cable assembly and wiring assembly work package has a parts list. The parts list contains a list of all the parts that are applicable to the cable assembly or a panel wiring assembly except terminals, splices, contacts and sealing plugs. To find part number information for terminals, splices, contacts, and sealing plugs refer to the applicable repair work package in the A1-F18AC-WRM-000 manual. Only parts with a quantity of one or more or reference (REF) items will appear on this list. See figure 6 for an example of work package parts list. A detailed explanation of each parts list column is below:

a. **REFERENCE DESIGNATION.** Reference designations are combinations of letters and numbers used to identify electrical parts located on the aircraft. These reference designations appear in the reference designation column of the parts list. See WP002 02.

b. **PART NUMBER.** The part number column gives the manufacturer's part number.

c. **DESCRIPTION.** Manufacturer's codes are shown in the description column in parentheses after the nomenclature for the items. These codes are per the Commercial and Government Entity (CAGE) Handbook H4/H8 Series. No code or name indicates the item is a government standard part.

(1) **Converted Part Numbers.** When a part number contains dashes between letters, or letters and numbers or punctuation marks or symbols, the part number is converted as explained in Cataloging Manual M1-6. The converted part number is shown in the part number column and the nonconverted part number is shown in the description column.

(2) **Parts Relationship.** Detail parts are indicated by indentation under the assembly they are used in.

d. **QUANTITY (QTY).** Quantity Column gives the amount of each item to be used on cable assembly and panel assembly. The as required (A/R) items will not appear in the Parts List.

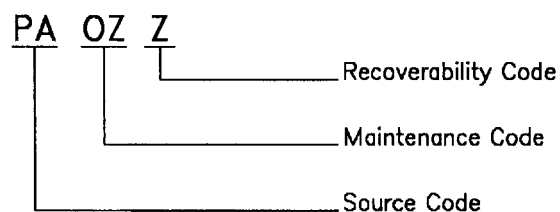
e. **USE ON CODE.** For an explanation of the use on code column, see paragraph 25. No entry in the use-on column indicates parts are applicable to all configurations supported by the parts list. An asterisk (*), in the use-on column, identifies alternate parts or equivalent parts. An alternate part may be used when the preferred part is not available. The asterisk is omitted for the preferred part. Equivalent parts are fully interchangeable. No equivalent part is preferred over another. All equivalent parts are identified by asterisks.

f. **SOURCE, MAINTENANCE AND RECOVERABILITY (SM&R) CODE.** See example 2. The codes in this column are those assigned by the customer at times of Provisioning. NAVAIRINST 4423.3 SERIES and NAVSUPINST 4423.14 SERIES contain code definitions. A dash (-) is shown in the SM&R Code Column when no code has been assigned. The Aviation Supply Office P2300 series publication is to be used for the most current SM&R Code assignment information if doubt exists as to the validity of any SM&R Code listed in an IPB. Refer to figure 7 for SM&R Code explanations.

(1) **Source Code.** The Source Code is used to indicate the manner of acquiring items for maintenance.

(2) **Maintenance Code.** The Maintenance Code is the third and the fourth position of the SM&R Code. The third position is used to indicate the maintenance level authorized to remove or replace a component. The fourth position is used to authorize what level a component is repairable.

(3) **Recoverability Code.** The Recoverability Code is used to indicate the disposition action for unserviceable items.



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Example 2. Source, Maintenance and Recoverability (SM&R) CODE

g. CLOCK DEGREE (CLK DEG). The Clock Degree column indicates the angle in degrees between the connector keyway, and the direction of the angled cable clamp as viewed clockwise from the face of the connector.

h. NOTES. The notes column is used to indicate notes. For an explanation see paragraph 26.

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Page 4

PARTS LIST

REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION (CAGE)	QTY	USE ON CODE	SM&R CODE	CLK DEG	NOTE
10P-P008	74A760205-9EDA	CABLE ASSY (76301)	1		-		
	MS27467T11B98S	.CONNECTOR, PLUG	1		PAOZZ	270	
	74A895602-2144	.BAND, MARKER (76301)	1		MDOZZ		
13P-P004	MS27663B10-2	.ADAPTER, CABLE	1		PAOZZ		
	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ	20	
	74A895602-2149	.BAND, MARKER (76301)	1		MDOZZ		
2P-P011	MS27663B8-2	.ADAPTER, CABLE	1		PAOZZ		
	MS27467T11B98S	.CONNECTOR, PLUG	1		PAOZZ		
	74A895602-2268	.BAND, MARKER (76301)	1		MDOZZ		
2P-P012	MS27663B10-1	.ADAPTER, CABLE	1		PAOZZ		
	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ		
	74A895602-2151	.BAND, MARKER (76301)	1		MDOZZ		
2S-P023	MS27663B8-1	.ADAPTER, CABLE	1		PAOZZ		
	MS24523-26	.SWITCH, TOGGLE	REF		PAOZZ		
	74A895602-2503	.BAND, MARKER (76301)	1		MDOZZ		
22P-M008	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ		
	74A895602-2237	.BAND, MARKER (76301)	1		MDOZZ		
	G7057-9-NF	.ADAPTER, CABLE (06324)	1	*	PAOZZ		
22P-M009	S1844-03A34D	.ADAPTER, CABLE (07418)	1	*	PAOZZ		
	900-513-4108-55	.ADAPTER, CABLE (31461)	1	*	PAOZZ		
	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ	90	
22P-P005	74A895602-2238	.BAND, MARKER (76301)	1		MDOZZ		
	G7056-9-NF	.ADAPTER, CABLE (06324)	1	*	PAOZZ		
	S1844-03R59D	.ADAPTER, CABLE (07418)	1	*	PAOZZ		
22P-P012	900-513R4108-55	.ADAPTER, CABLE (31461)	1	*	PAOZZ		
	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ	270	
	74A895602-2153	.BAND, MARKER (76301)	1		MDOZZ		
22P-R006	MS27663B8-2	.ADAPTER, CABLE	1		PAOZZ		
	MS27467T9B35S	.CONNECTOR, PLUG	1		PAOZZ		
	74A895602-2236	.BAND, MARKER (76301)	1		MDOZZ		
22S-P032	MS27663B8-2	.ADAPTER, CABLE	1		PAOZZ		
	MS24523-26	.SWITCH, TOGGLE	REF		PAOZZ		
	74A895602-2502	.BAND, MARKER (76301)	1		MDOZZ		

Figure 6. Typical Parts List

SOURCE				MAINTENANCE			
1st POSITION		2nd POSITION		3rd POSITION		4th POSITION	
P	PROCURE	A	STOCKED	O	REPLACE OR USE AT ORGANIZATIONAL LEVEL	Z	NO REPAIR (CONSUMABLE)
		B	INSURANCE BUY				
		C	CURE-DATED ITEM	F H G	REPLACE OR USE AT IMA LEVEL INTERMEDIATE AFLOAT INTERMEDIATE ASHORE INTERMEDIATE AFLOAT/ ASHORE	B	RECONDITION BY ADJUSTMENT, CALIBRATION, LUBRICATION, PLATING, ETC.
		D	INITIAL OUTFITTING				
		E	GSE/STOCKED				
		F	GSE/NOT STOCKED				
		G	SUSTAINED SUPPORT				
K	REPAIR KIT COMPONENT	D	DEPOT	D	REPLACE OR USE AT DEPOT	O	REPAIR AT ORGANIZATIONAL LEVEL
		F	ORGANIZATIONAL/IMA			F	REPAIR AT IMA LEVEL
		B	BOTH KITS			H	INTERMEDIATE ASHORE
M A	MANUFACTURE ASSEMBLE	O	ORGANIZATIONAL	L	SPECIALIZED IMA REPAIR SITE	G	INTERMEDIATE AFLOAT/ASHORE
		F	INTERMEDIATE AFLOAT			D	REPAIR AT DEPOT OR COMMERCIAL
		H	INTERMEDIATE ASHORE				
		G	INTERMEDIATE AFLOAT/ASHORE				
X	MISCELLANEOUS	D	DEPOT	Z	NOT AUTHORIZED TO BE REMOVED OR REPLACED	L	REPAIR AT SPECIALIZED IMA SITE
		A	USE NEXT HIGHER ASSEMBLY			D	REPAIR AT DEPOT OR COMMERCIAL
		B	OBTAIN FROM SALVAGE OR ONE TIME BUY				
		C	DIAGRAM-SCHEMATICS, INSTALLATION DRAWINGS				

RECOVERABILITY		SERVICE OPTION	
5th POSITION		6th POSITION	
Z	NON-REPAIRABLE ITEM. CONDEMN AND DISPOSE AT LEVEL INDICATED IN 3rd POSITION.	1 2 3	APPLIES TO ENGINES ONLY. IDENTIFIES THE HIGHEST (1) TO LOWEST (3) LEVEL OF MAINTENANCE WHICH CAN REPLACE (3rd POSITION OF SMR CODE) THE ITEM.
O	REPAIRABLE ITEM. CONDEMN AND DISPOSE AT ORGANIZATIONAL LEVEL.	6	NORMALLY PROCURED COMMERCIAL BUT ORGANIC CAPABILITY EXISTS AT NARF FOR EMERGENCY STOP GAP REQUIREMENTS.
F H G	REPAIRABLE ITEM. CONDEMN AND DISPOSE AT IMA LEVEL INDICATED INTERMEDIATE AFLOAT INTERMEDIATE ASHORE INTERMEDIATE AFLOAT/ASHORE	E	"I" LEVEL REPAIR NOT AUTHORIZED BUT "I" LEVEL MUST VALIDATE FAILURE PRIOR TO BCM TO DEPOT.
		J	DESIGNATES INTER-SERVICE DLR, PER NAVY MP CONSIDERED COMPLETELY REPAIRABLE BELOW DEPOT LEVEL.
		8	SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 2nd DEGREE ENG. MAINTENANCE LEVEL.
D	REPAIRABLE ITEM. CONDEMN AND DISPOSE AT DEPOT OR CONTRACTOR FACILITY.	9	SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 3rd DEGREE ENG. MAINTENANCE LEVEL.
		P	DENOTES ITEMS WHICH ARE PROGRESSIVELY REPAIRED AT ORG, INT, AND DEPOT LEVELS. BLANK IF NO INT. REPAIR IS AUTHORIZED BETWEEN O & D LEVEL.
L	REPAIRABLE ITEM. CONDEMN AND DISPOSE AT SPECIALIZED IMA REPAIR SITE.	N	ASSIGNED TO XB SOURCE CODE AND INDICATES ITEM IS PROCURED LOCALLY. NOT STOCKED IN THE SUPPLY SYSTEM.
A	SPECIAL HANDLING REQUIRED. CONTACT ITEM MANAGER FOR DISPOSAL INSTRUCTIONS.	T	ASSIGNED TO TRAINING DEVICES WITH SOURCE CODE OF "PD." INDICATES ITEM IS NOT A PROCURABLE SPARE. WSN IS ASSIGNED ONLY TO PERMIT VISIBILITY OF REPAIR PART RELATIONSHIP.

(INTRO-1)09-CATI

Figure 7. SM&R Code Explanation

■ 29. **WIRE LIST.** See figure 8.

30. Each aircraft cable assembly and wiring assembly work package has a wire list. The wire list contains a list of all wires that are applicable to cable assembly or wiring cable assembly. Each wire appears twice in this list. This is a result of the wire being listed once with the FROM REFERENCE DESIGNATION listed first and listed a second time with the TO REFERENCE DESIGNATION listed first. Spare pins for each reference designation (if applicable) will also be listed.

a. **REFERENCE DESIGNATION.** Reference designations are combinations of letters and numbers used to identify electrical parts located on the aircraft. The reference designation columns that appear in the wire list gives the first and second terminations of each wire. The first reference designation column, is sorted in alphanumerical order. The second reference designation column is not sorted. For explanation of the reference designation, see paragraph 28a, and WP002 02.

b. **PIN.** The pin columns give the specific pin letter(s) or pin number(s) for each end of the wire listed. Lower case letters will be indicated by an ampersand (&) preceding an upper case letter.

c. **REPAIR WP.** The repair WP column contains one of three types of information, repair work package number, NOTE, and GEN NT. Repair work package number in repair WP column indicates the work package in the A1-F18AC-WRM-000 which contains the repair procedures for that connector and pin. NOTE in the repair WP column means to see the note column

on the far right hand side of the wire list, see paragraph 26. GEN NT in the repair WP column means to see the general note(s) which are found on the legend page(s) towards the front of the work package, see paragraph 24.

d. **USE ON CODE.** For an explanation of the use on code column, see paragraph 25.

e. **WIRE IDENTIFICATION.** The wire identification column lists the wire number. See example 3.

(1) **Circuit Function Letter.** The circuit function letter indicates the circuit within a particular system.

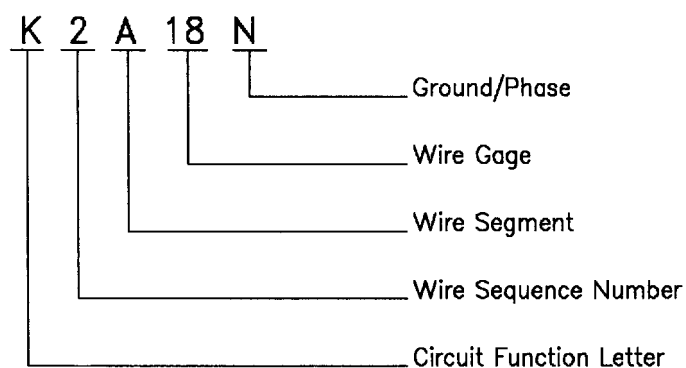
(2) **Wire Sequence Number.** The wire number indicates the numerical sequence of this wire in a particular circuit.

(3) **Wire Segment.** The wire segment is a letter designation that is used to identify a particular wire in a series used within a circuit.

(4) **Wire Gage.** The wire gage gives the American Wire Gage (AWG) size of wire. A shield is represented by SH in the wire gage.

(5) **Ground/Phase.** The ground/phase suffix letter (when applicable) identifies a particular function of wire segment. An explanation of the suffix letters are as follows:

- A = A wire that carries phase A power.
- B = A wire that carries phase B power.
- C = A wire that carries phase C power.
- N = A ground wire.



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Example 3. Wire Identification

f. LG. The lg column indicates wire length (in inches) for each of the wires. The wire length represents the minimum length a wire can be cut and still reach from pin to pin.

g. WIRE TYPE. The wire type column gives a numerical designation (Code). To convert this code to a part number and type of wire, see A1-F18AC-WRM-000, WP004 00.

h. NOTE. For an explanation of the Note Column, see paragraph 26.

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WIRE LIST

FROM			USE ON CODE	WIRE			TO			NOTE
REFERENCE DESIGNATION	PIN	REPAIR WP		NUMBER	LG	TYPE	REFERENCE DESIGNATION	PIN	REPAIR WP	
52J-R102	7			SPAREPIN						
52J-R102	8			WP602 07					036 00	
52J-R102	9			WP602 07					036 00	
52J-R102	10			WP602 07					036 00	
52J-R102	11			WP602 07					036 00	
52J-R102	12			WP602 07					036 00	
52J-R102	13			WP602 07					036 00	
52J-R102	14			WP602 07					036 00	
52J-R102	15			SPAREPIN						
52J-R102	16			WP602 07					036 00	
52J-R102	17			WP602 07					036 00	
52J-R102	18	168 00		Q234C 22CR		869	52P-F005A	18	201 00	TF
52J-R102	19			WP602 07					036 00	
52J-R102	20			WP602 07					036 00	
52J-R102	21			WP602 07					036 00	
52J-R102	22			WP602 07					036 00	
52J-R102	23			WP602 07					036 00	
52J-R102	24			SPAREPIN						
52J-R102	25			WP602 07					036 00	
52J-R102	26			SPAREPIN						
52J-R102	27	168 00		Q233C 26AL		869	52P-F005A	17	201 00	TE
52J-R102	28			WP602 07					036 00	
52J-R102	29			WP602 07					036 00	
52J-R102	30			WP602 07					036 00	
52J-R102	31			SPAREPIN						
52J-R102	32			SPAREPIN						
52J-R102	33			SPAREPIN						
52J-R102	34			SPAREPIN						
52J-R102	35			SPAREPIN						
52J-R102	36			WP602 07					036 00	
52J-R102	37	168 00		Q232C 22CR		869	52P-F005A	14	201 00	TE
52J-R102	38			WP602 07					036 00	
52J-R102	39			WP602 07					036 00	
52J-R102	40			SPAREPIN						
52J-R102	41			WP602 07					036 00	
52J-R102	42			SPAREPIN						
52J-R102	43			WP602 07					036 00	
52J-R102	44			SPAREPIN						
52J-R102	45			SPAREPIN						
52J-R102	46			SPAREPIN						
52J-R102	47	168 00		Q231C 26AL		869	52P-F005A	13	201 00	TE
52J-R102	48			WP602 07					036 00	

Figure 8. Typical Wire List

INTRODUCTION

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

HOW TO USE MANUAL

Reference Material

Wiring Diagrams	A1-F18A()-WDM-000
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Alphabetical Index	WP001 00
Cable/Wiring Assembly Data Index	WP001 01
MS3450 and MS3459 (MIL-C-5015) Connector Repair	WP157 00
Protective Boot Installation for Environmental Type Connectors With Metal Cable Clamps	WP080 00
Reference Designation and Aircraft Section Designation System, Explanation of	WP002 02
Reference Designation to Work Package Index	WP001 02
Repair of Single Conductor Non - Shielded Wire	WP026 00
Wire Type List	WP004 00
Wiring Repair With Parts Data Cable Assemblies 74A750001 Through	
74A750999	A1-F18AC-WRM-010
75A753211 Cable Assembly, Forward Fuselage	WP532 11

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This manual can be used with wiring diagrams contained in the A1-F18AC-WDM-000 Wiring Diagrams Manual. The wiring diagrams manual (WDM) provides component locations, and wiring diagrams to isolate faulty wiring. When a maintenance problem has been isolated to an aircraft cable or wiring assembly, the WRM volumes are used to repair the problem.

3. A1-F18AC-WRM-000 and A1-F18AC-WRM-001 are used to repair connectors and wiring. A1-F18AC-WRM-010 through A1-F18AC-WRM-070 provide part ordering and part replacement information and wiring hookup data.

4. Wiring repair is made up basically of two types of repair as listed below:

CONNECTOR REPAIR
WIRE REPAIR

5. **CONNECTOR REPAIR.** See figure 1.

6. To repair a connector, continue with instructions below:

a. Using the A1-F18A()-WDM-000 Wiring Diagrams Manual, isolate the problem to an electrical connector and pin on a cable or wiring assembly. Note the reference designation of the connector.

NOTE

Items other than connectors, such as switches, terminal blocks, relays, etc., and their termination points, found inside or outside of WRAs, may also be noted.

b. Find the reference designation in the reference designation to work package index (WP001 02) of the A1-F18AC-WRM-000 volume. The reference designations are in alphanumerical order. Note the assembly identification number, volume number, and work pack-

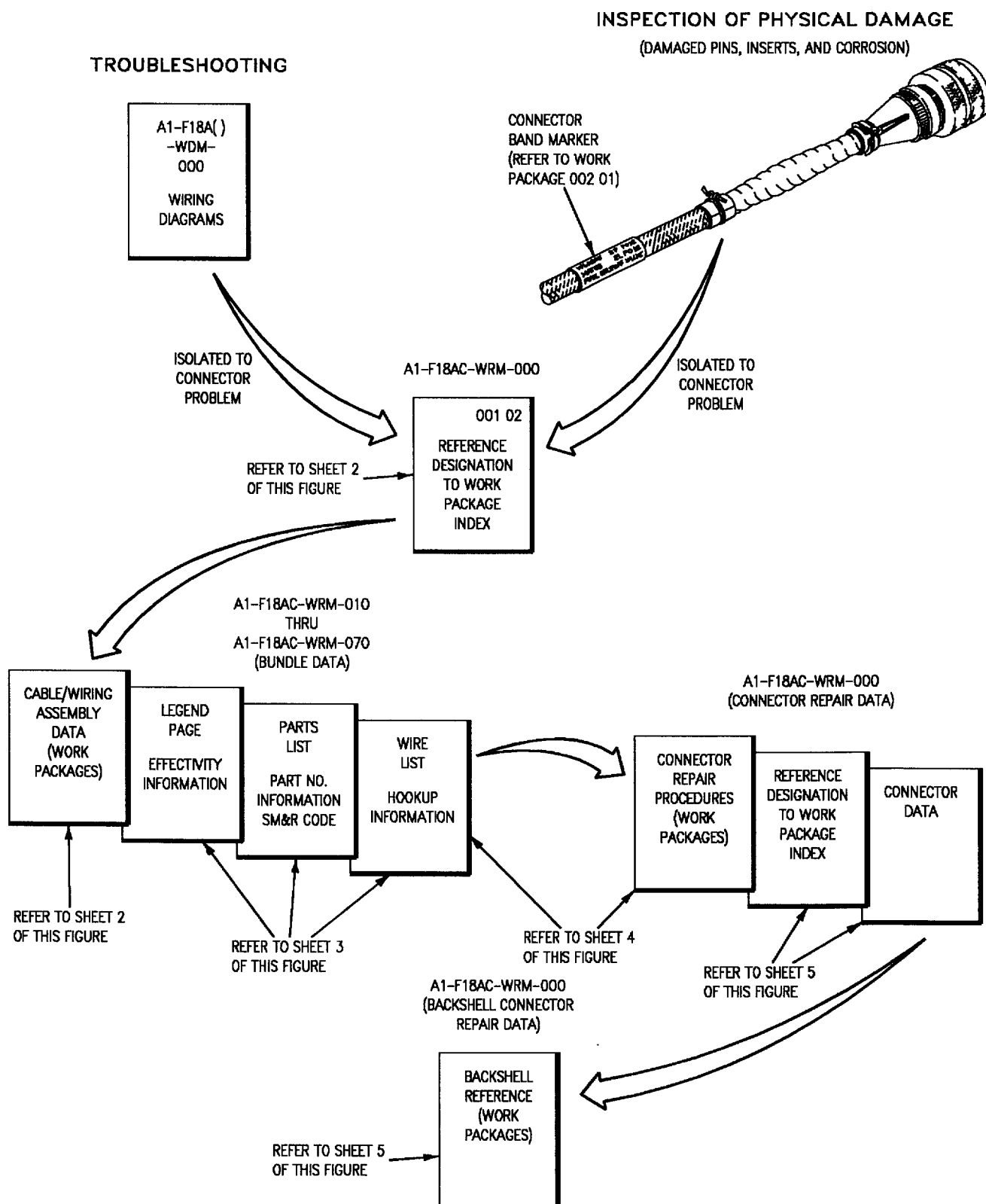
age number listed for the required reference designation. See figure 1, How To Use Manual For Connector Repair.

7. **WIRE REPAIR.** See figure 2.

8. To repair a wiring problem, continue with instructions below:

a. Using the A1-F18A()-WDM-000 Wiring Diagrams Manual, isolate to an electrical wiring problem. Note the cable/wiring assembly identification marker of the cable/wiring assembly.

b. Find the assembly identification number in the cable/wiring assembly data index (WP001 01). The assembly identification numbers are sorted in numerical order. Note the cable assembly title, work package number, and volume number for the required assembly identification number. See figure 2, How To Use Manual For Wiring Repair.



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Figure 1. How to Use Manual for Connector Repair (Sheet 1)

A1-F18AC-WRM-000				
REFERENCE DESIGNATION TO WORK PACKAGE INDEX				
REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
1CBC048	-070	705 05	TF	74A770505
1CBC075	-070	700 42	F	74A770042
1CBC075	-070	705 42	TF	74A770542
1CBC085	-070	700 42	F	74A770042
1CBC085	-070	705 42	TF	74A770542
1CBC086	-070	700 42	F	74A770042
1CBC086	-070	705 42	TF	74A770542
1CBC087	-070	700 42	F	74A770042
1CBC087	-070	705 42	TF	74A770542
1CBC088	-070	700 42	F	74A770042
1CBC088	-070	705 42	TF	74A770542
1CBC136	-070	700 42	F	74A770042
1CBC136	-070	705 42	TF	74A770542
1CBC136	-070	700 42	F	74A770042
1CBC136	-070	705 42	TF	74A770542
1CBC147	-070	700 42	F	74A770042
1CBC147	-070	705 42	TF	74A770542
1CBD030	-070	700 02	F/TF	74A770002
1CBD031	-070	700 02	F/TF	74A770002
1CBD032	-070	700 02	F/TF	74A770002
1CBD037	-070	700 02	F/TF	74A770002
1CBD045	-070	700 02	F/TF	74A770002
1CBD132	-070	700 02	F/TF	74A770002
1CBD133	-070	700 02	F/TF	74A770002
1CBD134	-070	700 02	F/TF	74A770002
1CRD124	-070	700 44	F/TF	74A770044
1J-A138	-070	700 57	F/TF	74A770057
1J-A153	-030	532 38	F/TF	74A753238
1J-C021	-030	532 28	F/TF	74A753228
1J-G089	-020	532 11	F	74A753211
1J-H004	-070	700 15	F/TF	74A770015
1J-J084	-070	700 14	F/TF	74A770014
1K-A130	-070	700 57	F/TF	74A770057
1K-C007	-020	532 07	F/TF	74A753207
1K-C007	-020	532 17	F	74A753217
1K-C007	-030	532 25	F/TF	74A753225
1K-C007	-030	533 17	TF	74A753317

001 02
Page 28

For explanation of REFERENCE DESIGNATIONS, refer to WORK PACKAGE 002 02.

See WORK PACKAGE 001 02 of A1-F18AC-WRM-000. Find desired REFERENCE DESIGNATOR located in this REFERENCE DESIGNATION TO WORK PACKAGE INDEX.

Locate Work Package Number(s) and Wiring Repair Volume Number(s) which contains the Work Package(s). Volumes A1-F18AC-WRM-010 thru A1-F18AC-WRM-070 give the CABLE/WIRING ASSEMBLY DATA Work Package(s).

Refer to VOLUME A1-F18AC-WRM-020, WORK PACKAGE 532 11.

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1 September 1986		Page 1		
ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE				
WIRING REPAIR WITH PARTS DATA				
74A753211 FORWARD FUSELAGE CABLE ASSEMBLY				
EFFECTIVITY: F/A-18A				
Reference Material				
Wiring Repair With Parts Data Manual	A1-F18AC-WRM-000			
Wiring Diagram Manual	A1-F18A()WDM-000			
Alphabetical Index				
Subject	Page No.			
Legend	3			
Parts List	7			
Wire List	10			
Record of Applicable Technical Directives				
Type/Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 8	22 Sep 82	Power Lever Control Actuator Circuit Change (ECP MDA-F18-00041)	1 Mar 83	-
F18 AFC 27	-	Leading Edge Flap/Control Stick Change (ECP 00044)	1 Sep 86	-
F18 AFC 39	19 Sep 85	No. 1 Fuel Tank Interconnect Valve Replacement and Fuel Sequencing Modification (ECP MDA F/A-18-00072C1)	1 Sep 86	-

F/A-18-WRM-(185-7)02-CAT1

Figure 1. How to Use Manual for Connector Repair (Sheet 2)

A1-F18AC-WRM-020

LEGEND

USE ON CODE(S)

AA F-18A 161353 THRU 161359
 AB F-18A 161353 THRU 151519
 AC F-18A 161353 THRU 161519, 162394 AND UP
 AD F-18A 161353 THRU 161528
 AE F-18A 161353 THRU 161528 AND 161925 THRU 161987
 AF F-18A 161353 THRU 161715
 AG F-18A 161353 THRU 161761
 AH F-18A 161353 THRU 161987
 AI F-18A 161361 THRU 161519
 AJ F-18A 161361 AND U
 AK F-18A 161520 THRU
 AL F-18A 161520 THRU
 AM F-18A 161520 AND U
 AN F-18A 161702 THRU
 AO F-18A 161702 THRU
 AP F-18A 161702 THRU
 AQ F-18A 161702 AND U
 AR F-18A 161716 THRU

A1-F18AC-WRM-020

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Page 2

PARTS LIST

REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION (CAGE)	QTY	USE ON CODE	SM&R CODE	CLK DEG	NOTE
1J-G089	74A753211-9CPE	CABLE ASSY	1	AA	-		
	MS3450W18-9S	CONNECTOR	1		PAQZZ		
	74A890600-2582	BAND MARKER	1		MDOZZ		
1P-C022	M85048/82-1-16W	CLAMP, CABLE	1		PAQZZ	240	
	MS27447T13B35S	CONNECTOR, PLUG	1		PAQZZ		
	74A890600-2285	BAND MARKER	1		MDOZZ		
1P-C023	MS27447T16B18US	CONNECTOR, PLUG	1		PAQZZ	210	
	74A890600-2286	BAND MARKER	1		MDOZZ		
1P-C 45	MS27447T16B18-2	ADAPTER, CABLE	1		PAQZZ		
	MS27447T13B35S	CONNECTOR, PLUG	1		PAQZZ	240	
	74A890600-2904	BAND MARKER	1		MDOZZ		
1S-G 66	M83449/46W32	ADAPTER, CABLE	1	REF	PAQZZ		
	74A890600-2982	SWITCH	1	REF			
2S-G002	-	BAND MARKER	1	REF	MDOZZ		
20S-0010	-	SWITCH	1				
22J-C108	MS27656T17BUS	SWITCH	1				
	74A890600-2557	CONNE	1				
	MS27656T16-2	BAND	1				
	S73M546-6	ADAPTE	1				
22K-C055	-	NUT RI	1				
22P-AD73	MS27447T11835S	RELAY	1				
	74A890600-2628	BAND	1				
	77056-11-NF	ADAPTE	1				
	S1844-08859D	(763)	1				
	900-513R4110-55	ADAPTE	1				
22P-A057	MS27447T16B35S	(763)	1				
	74A890600-2770	CONNE	1				
	G7057-9-NF	BAND	1				
	S1844-03A340	ADAPTE	1				
	900-513-4108-55	(763)	1				

WIRE LIST

FROM				WIRE			TO			
REFERENCE DESIGNATION	PIN	REPAIR WP	USE ON CODE	NUMBER	LG	TYPE	REFERENCE DESIGNATION	PIN	REPAIR WP	NOTE
WTF007	59	035 00		Q388	22	138 640	52P-C159G	55	169 00	
WTF007	61	035 00		G201D	22	135 640	52P-C033	PP	169 00	
WTF007	62	035 00		G202C	22	135 640	52P-C033	HH	169 00	
WTF007	64	035 00		L59C	22	270 640	52P-A034	94	169 00	
WTF007	79	035 00		C32C	22	111 640	52P-C057E	93	169 00	
WTF007	82	035 00		C422D	5H	128	52J-C022	S001	036 00	CJ
WTF007	93	035 00		C422D	26	128 808	52J-C022	61	172 00	CJ
WTF007	94	035 00		C423D	26	128 806	52J-C022	54	172 00	
WTF007	105	035 00		L100D	22	128 640	52J-C022	27	172 00	
WTF007	106	035 00		L101D	22	128 640	52J-C022	19	172 00	
WTF007	107	035 00		L103D	22	128 640	52J-C022	12	172 00	
WTF007	108	035 00		L104D	22	128 640	52J-C022	13	172 00	
WTF007	109	035 00		L108D	22	128 640	52J-C022	7	172 00	
WTF007	110	035 00		L107D	22	128 640	52J-C022	8	172 00	
WTF007	112	035 00		L308D	22	128 640	52J-C022	6	172 00	
WTF007	119	035 00		Q22B	26	129 641	52P-C159F	5	169 00	
WTF007	124	035 00		Q23B	26	138 641	52P-C159G	43	169 00	
WTF007	138	035 00		K451B	22	129 640	52P-C159F	43	169 00	
WTF007	173	035 00		G283C	26	121 641	52P-C057E	114	169 00	
WTF007	174	035 00		H94B	22	121 640	52P-C057D	66	169 00	
WTF007	176	035 00		H420C	26	121 641	52P-C057E	33	169 00	
WTF007	177	035 00		SF40C	26	281 641	60J-A001B	17	172 00	
WTF007	180	035 00		TM122C	22	121 640	52P-C057E	5	169 00	
WTF007	181	035 00		W243B	26	138 641	52P-C159G	49	169 00	
1J-G089	A	157 00		990C	12	7	1J-G089	S001	035 00	
1J-G089	C	157 00		X140R	20N	30 678	GND1-C004	1	036 00	
1J-G089	D	157 00		SPAREPIN						
1J-G089	E	157 00		P91B	12	7	1J-G089	S005	035 00	
1J-G089	F	157 00		X137C	20	7	1J-G089	S002	035 00	
1J-G089	G	157 00		X138C	30	7	1J-G089	S003	035 00	
1J-G089	H	157 00		X139C	20	7	1J-G089	S004	036 00	
1J-G089	S001	035 00		P90B	22	7	52P-C159G	28	169 00	
1J-G089	S001	035 00		P90C	12	7	1J-G089	A	157 00	
1J-G089	S002	035 00		X137B	22	67	52P-C159G	31	169 00	JY
1J-G089	S002	035 00		X137C	20	7	1J-G089	E	157 00	
1J-G089	S003	035 00		X138B	22	67	52P-C159G	30	169 00	JY

Find PARTS LIST, (Parts List will always begin on page 3). Locate REFERENCE DESIGNATION NUMBER. Note PART NUMBER.

Find REFERENCE DESIGNATION and PIN in Wire list. Note REPAIR WORK PACKAGE(S) (REPAIR WP), the Wires AIRCRAFT EFFECTIVITY (USE ON CODE), and WIRE TYPE Code Number (WIRE TYPE).

Figure 1. How to Use Manual for Connector Repair (Sheet 3)

A1-F18AC-WRM-020										532 11
WIRE LIST										Page 14
FROM			WIRE			TO			NOTE	
REFERENCE DESIGNATION	PIN	REPAIR WP	USE OF CODE	NUMBER	LG	TYPE	REFERENCE DESIGNATION	PIN	REPAIR WP	
WTF007	59	035 00		Q38B	22	138 640	52P-C159G	55	169 00	
WTF007	61	035 00		G201D	22	135 640	52P-C033	PP	168 00	
WTF007	62	035 00		G202C	22	135 640	52P-C033	HH	168 00	
WTF007	64	035 00		L59C	22	270 640	52P-A034	94	169 00	
WTF007	79	035 00		C32C	22	111 640	52P-C057E	93	169 00	
WTF007	82	035 00		C422D	5H	128	52J-C022	S001	036 00	CJ
WTF007	93	035 00		C422D	28	128 806	52J-C022	81	172 00	CJ
WTF007	94	035 00		C423D	28	128 806	52J-C022	54	172 00	CJ
WTF007	105	035 00		L100D	22	128 640	52J-C022	27	172 00	
WTF007	106	035 00		L101D	22	128 640	52J-C022	19	172 00	
WTF007	107	035 00		L103D	22	128 640	52J-C022	12	172 00	
WTF007	108	035 00		L104D	22	128 640	52J-C022	13	172 00	
WTF007	109	035 00		L106D	22	128 640	52J-C022	7	172 00	
WTF007	110	035 00		L107D	22	128 640	52J-C022	8	172 00	
WTF007	112	035 00		L306D	22	128 640	52J-C022	6	172 00	
WTF007	119	035 00		Q22B	26	129 641	52P-C159F	5	168 00	
WTF007	124	035 00		Q23B	26	138 641	52P-C159G	43	168 00	
WTF007	138	035 00		K451B	22	129 640	52P-C159F	43	168 00	
WTF007	173	035 00		G283C	26	121 641	52P-C057E	114	168 00	
WTF007	174	035 00		H94B	22	121 640	52P-C057D	66	168 00	
WTF007	178	035 00		H420C	26	121 641	52P-C057E	33	168 00	
WTF007	177	035 00		SF40C	26	261 641	80J-A001B	17	172 00	
WTF007	180	035 00		TM122C	22	121 640	52P-C057E	5	168 00	
WTF007	181	035 00		W243B	26	138 641	52P-C159G	49	168 00	
1J-G089	A	157 00		P90C	12	7 852	1J-G089	S001	035 00	
1J-G089	B	157 00		X140A	20N	30 678	GND1-C004	1	036 00	
1J-G089	D	157 00		S001						
1J-G089	E	157 00		P91B	12	7 852	1J-G089	S005	035 00	
1J-G089	F	157 00		X137C	20	7 678	1J-G089	S002	035 00	
1J-G089	G	157 00		X138C	30	7 678	1J-G089	S003	035 00	
1J-G089	S001	035 00		X139C	20	7 678	1J-G089	S004	035 00	
1J-G089	S001	035 00		P90B	22	7 640	52P-C159G	28	168 00	
1J-G089	S002	035 00		P90C	12	7 852	1J-G089	A	157 00	
1J-G089	S002	035 00		X137B	22	67 645	52P-C159G	31	168 00	JY
1J-G089	S002	035 00		X137C	20	7 678	1J-G089	E	157 00	
1J-G089	S003	035 00		X138B	22	67 645	52P-C159G	30	168 00	JY

Using the (REPAIR WP) refer to the VOLUME A1-F18AC-WRM-000 for the CONNECTOR REPAIR PROCEDURES Work Package(s) for that REFERENCE DESIGNATION and PIN.

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ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE		
WIRING REPAIR WITH PARTS DATA		
MS3450 AND MS3459 (MIL-C-5015) CONNECTOR REPAIR		
Reference Material		
Aircraft Cleaning and Corrosion Prevention Control	NAVAIR 18-1-54	
Wiring Repair With Parts Data	A1-F18AC-WRM-000	
Expandable Sleeve Installation for Environmental Type		
Connectors With Molded Plastic Cable Clamps	WP070 00	
Fabrication of Shielded Harness Terminated With		
Electro-Magnetic Interference (EMI) Backshells	WP080 00	
Protective Boot Installation for Environmental Type		
Connectors With Metal Clamps	WP080 00	
Protective Boot Installation for Environmental Type		
Connectors With Molded Plastic Cable Clamps	WP090 00	
Repair of Silicone Rubber Tape Boots	WP050 00	
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Broken Wire Contact Removal, Figure 19	16	
Broken Wire Contact Removal From Connector	14	
Contact Crimping	9	
Contact Crimping, Figure 8	9	
Corrosion Control		
Crimp Tool Handle M22520/1-01 Assembly and Adjustments	6	
Adjusting Turret Head Before Crimping	8	
Removal and Installation of Turret Head	7	
Setting Selector Knob Using Turret Head	8	
Extracting Contact From Connector, Figure 17	14	
General	3	
Inserting Contact Into Insertion Tool, Figure 10	10	
Inserting Contacts Into Connector, Figure 11	11	
Inserting Sealing Plug(s) Into Connector, Figure 12	11	
Insertion of Contact Into Connector	10	
Inspection of Crimped Contact, Figure 9	10	
Materials Required	3	

Figure 1. How to Use Manual for Connector Repair (Sheet 4)

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Subject

Alphabetical Index (Continued)

Placing Wire in Slot of Stripping Tool, Figure 2

Removal Tool on Wire, Figure 13

Removing Contact From Connector, Figure 15

Removing Insulation, Figure 3

Repair Procedure

Strip Gap Check, Figure 7

Stripping Completed, Figure 4

Support Equipment Required

Unacceptable Conditions, Figure 5

Unlocking Contact Mechanism, Figure 14

Unlocking Contact Retention Mechanism of Broken Wire Cont

Unlocking Contact Retention Mechanism of Unwired Contact

Unwired Contact Removal From Connector

Wire Preparation

Wired Contact Removal From Connector

Reference Designation to Figure Number

Reference Designator

1J-G089

10P-P003

10P-R004

Figure No.

20

22

21

Reference Designation

64P-ED01A

64P-ED01B

70P-ED05

Record of Applicable Technical Directives

1. GENERAL

2. The MS3450 and MS3459 connectors are manufactured to MIL-C-501-G. The wall mounting receptacles and the MS3450 are straight plugs with self-locking coupling nuts. These connectors are interchangeable and intermountable with MIL-C-83722, Series 2, connectors. The connectors are of the circular environmental-resistant type; partial

fluid protection fuels, oils, coolants, The oo type, rear-rem withstand temp

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AS VIEWED FROM REAR OF CONNECTOR

Reference Designation to Backshell Data Index for MS3450W28-9S Connectors

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
1J-G089	MS3417-18C	080 00

Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/1-01
Positioner	M22520/1-02
Insertion Tool	M27534-16
Removal Tool	M27534-12
Removal Tool	M27534-16
Removal Tool	M27534-12
Removal Tool (Unwired)	MS3448-001
Removal Tool Probe (Blue)	MS3448-001B (16 ga.)
Removal Tool Probe (Yellow)	MS3448-001C (12 ga.)

Figure 20. MS3450W18-9S Connectors (Sheet 1)

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ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

PROTECTIVE BOOT INSTALLATION FOR ENVIRONMENTAL TYPE CONNECTORS WITH METAL CABLE CLAMPS

Reference Material

None

Alphabetical Index

Subject

Page No.

Adapter Tool Mating, Figure 2

BT Adapter Tools

BT Adapter Tool Part Numbering System, Figure 1

B22ac-H Backshell, Figure 17

Cable Clamp Versus Spacer, Table 1

Disassembly Procedure

GTR23 Backshell, Figure 19

G7166 Backshell, Figure 34

Installing Cable Clamp, Figure 10

Installing Cable Clamps, Figure 11

Introduction

J1305 Cable Clamp, Figure 35

Loosening Position of Wrench, Figure 5

Materials Required

MS27291-8 Backshell, Figure 20

MS27506 Backshell, Figure 21

MS27569 Backshell, Figure 18

MS3154 Backshell, Figure 22

MS3188 Backshell, Figure 23

MS3417 and M85049/52XXX Backshell, Figure 24

MS3418 Backshell, Figure 25

M38888-1-108 Backshell, Figure 26

M81511-13 Backshell, Figure 27

M85049-51 Backshell, Figure 28

Positioning Reinforced Silicone Rubber Tape, Figure 14

Procedure

Reassembly Procedure

Find desired REFERENCE DESIGNATOR located in this REFERENCE DESIGNATION TO FIGURE NUMBER INDEX.

To do Backshell Reconstruction locate the "REFERENCE WORK PACKAGE" for the REFERENCE DESIGNATION of the desired Connector.

Locate and refer to the FIGURE NUMBER that contains the Connector Data.

Do the REPAIR PROCEDURES found in the front part of the Work Package for Repairing the Connector.

Refer to the REFERENCE WORK PACKAGE for Backshell Data.

Do continuity and reflectometer tests after repair of connectors. For correct cable parameters refer to applicable system(s) manual.

Figure 1. How to Use Manual for Connector Repair (Sheet 5)

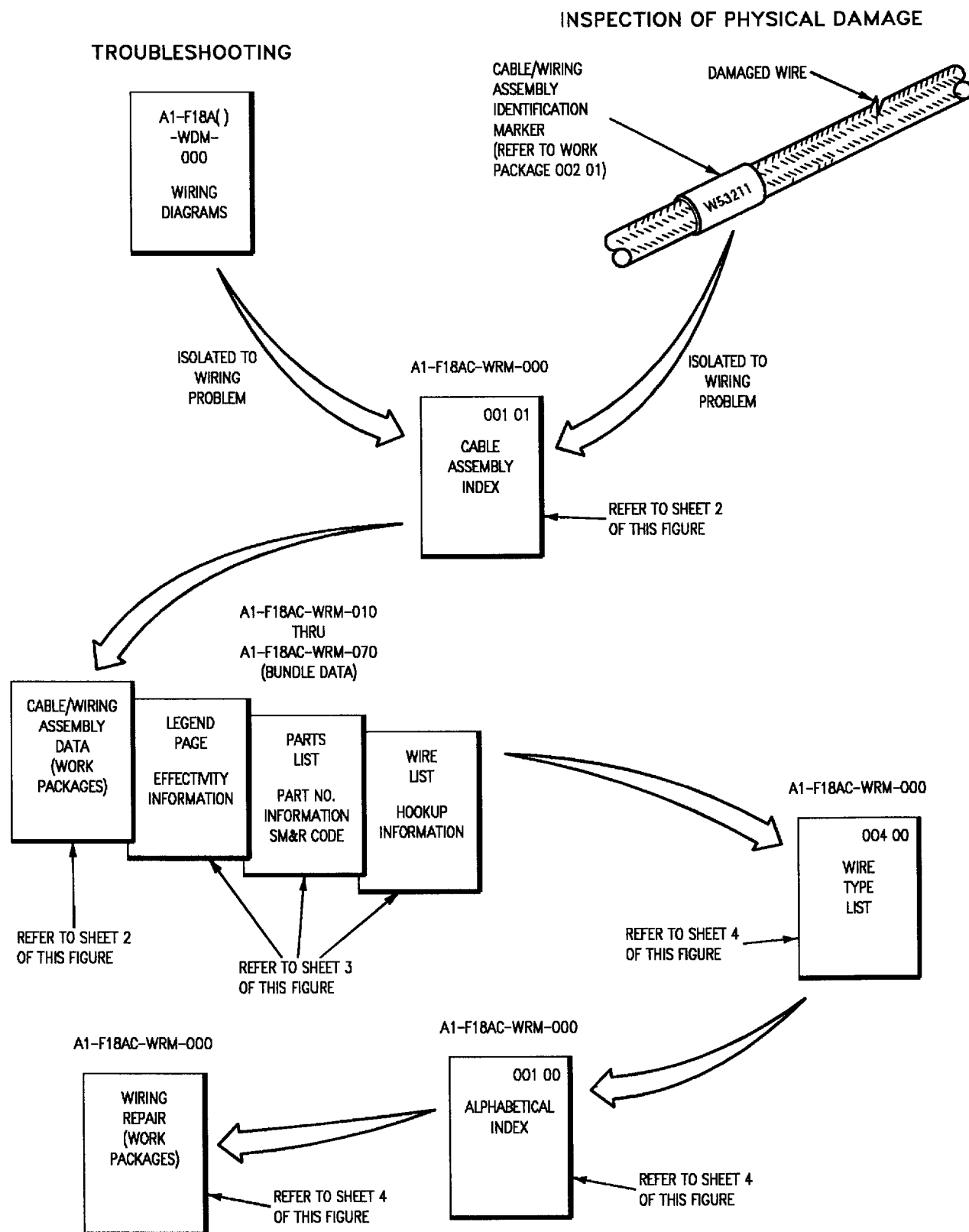


Figure 2. How to Use Manual for Wiring Repair (Sheet 1)

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CABLE/WIRING ASSEMBLY DATA INDEX (Continued)

ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER
74A753206	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 06
74A753207	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 07
74A753208	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 08
74A753209	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 09
74A753210	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 10
74A753211	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 11
74A753212	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 12
74A753213	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 13
74A753214	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 14
74A753215	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 15
74A753216	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 16
74A753217	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 17
74A753218	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 18
74A753219	FORWARD FUSELAGE CABLE ASSEMBLY	-020	532 19
74A753220	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 20
74A753221	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 21
74A753222	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 22
74A753223	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 23
74A753224	FORWARD FUSELAGE CABLE ASSEMBLY	-030	532 24

For explanation of ASSEMBLY IDENTIFICATION, refer to WORK PACKAGE 002 01.

See WORK PACKAGE 001 01 of the Wiring Repair Volume A1-F18AC-WRM-000 thru A1-F18AC-WRM-070. Find desired ASSEMBLY IDENTIFICATION Located in this CABLE/WIRING ASSEMBLY DATA INDEX.

Locate the Work Package Number(s) and the Wiring Repair Volume Number(s) which contain the Work Package(s). The Volumes A1-F18AC-WRM-010 thru A1-F18AC-WRM-070 gives the CABLE/WIRING ASSEMBLY Work Package(s).

Refer to VOLUME A1-F18AC-WRM-020, WORK PACKAGE 532 11.

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ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA
74A753211 FORWARD FUSELAGE CABLE ASSEMBLY
EFFECTIVITY: F/A-18A

Reference Material

Wiring Repair With Parts Data Manual ——— A1-F18AC-WRM-000
Wiring Diagram Manual ——— A1-F18AC-WDM-000

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Wire List	7

Record of Applicable Technical Directives

Type/Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 5	22 Sep 82	Power Lever Control Actuator Circuit Change (ECP MDA-F18-00041)	1 Mar 83	-
F18 AFC 27	-	Loading Edge Flap/Control Stick Change (ECP 00044)	1 Sep 86	-
F18 AFC 39	19 Sep 85	No. 1 Fuel Tank Interconnect Valve Replacement and Fuel Sequencing Modification (ECP MDA F/A-18-0007201)	1 Sep 86	-

Figure 2. How to Use Manual for Wiring Repair (Sheet 2)

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LEGEND

USE ON CODE(S)

AA F-18A 161353 THRU 161359
 AB F-18A 161353 THRU 151519
 AC F-18A 161353 THRU 161519, 162394 AND UP
 AD F-18A 161353 THRU 181528
 AE F-18A 161353 THRU 161528 AND 161925 THRU 161987
 AF F-18A 161353 THRU 181715
 AG F-18A 161353 THRU 161761
 AH F-18A 161353 THRU 181087
 AI F-18A 161381 THRU 161519
 AJ F-18A 161381 AND U
 AK F-18A 161520 THRU
 AL F-18A 161520 THRU
 AM F-18A 161520 AND U
 AN F-18A 161702 THRU
 AO F-18A 161702 THRU
 AP F-18A 161702 THRU
 AQ F-18A 161702 AND U
 AR F-18A 161716 THRU

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PARTS LIST

REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION (CAGE)	QTY	USE ON CODE	SM&R CODE	CLK DEG	NOTE
1J-G089	74A753211-9CPE	CABLE ASSY (78301)	1	AA	-		
	MS3450W18-9S	CONNECTOR (78301)	1		PAOZZ		
	74A890800-2562	BAND MARKER (78301)	1		MDOZZ		
	M85049/52-1-18W	CLAMP, CABLE	1		PAOZZ	240	
1P-C022	MS27467T13B35S	CONNECTOR, PLUG	1		PAOZZ		
	74A890800-2285	BAND MARKER (78301)	1		MDOZZ		
	MS27663B12-2	CLAMP, CABLE	1		-		
1P-C023	MS27473T16BUS	CONNECTOR, PLUG	1		PAOZZ	210	
	74A890800-2286	BAND MARKER (76301)	1		MDOZZ		
	MS27663B16-2	ADAPTER, CABLE	1		PAOZZ		
1P-C145	MS27467T13B35S	CONNECTOR, PLUG	1		PAOZZ	240	
	74A890800-2904	BAND MARKER (76301)	1		MDOZZ		
	M83049/46W32	ADAPTER, CABLE	1		PAOZZ		
1S-G168	-	SWITCH	REF		-		
	74A890800-2982	BAND MARKER (76301)	1		MDOZZ		
2S-G002	-	SWITCH	REF		-		
20S-C010	-	SWITCH			-		
22J-C108	MS27658T17BUS	CONNECTOR					
	74A890800-2557	BAND MARKER					
	MS27663B16-2	ADAPTER, NUT RI					
	ST3M548-6	RELAY					
22K-D055	-	CONNECTOR					
22P-A073	MS27467T13B35S	CONNECTOR					
	74A890800-2528	BAND MARKER					
	G7056-11-NF	ADAPTER					
	S1844-08859D	ADAPTER (783)					
	900-513R4110-55	ADAPTER (783)					
22P-A087	MS27467T9B35S	CONNECTOR (783)					
	74A890800-2770	BAND MARKER					
	G7057-9-NF	ADAPTER (783)					
	S1844-03A34D	ADAPTER (783)					
	900-513-4108-55	ADAPTER					

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WIRE LIST

FROM				WIRE				TO				NOTE
REFERENCE DESIGNATION	PIN	REPAIR WP	WIRE CODE	NUMBER	LG	TYPE	REFERENCE DESIGNATION	PIN	REPAIR WP			
WTF007	58	035 00		Q388	22	138	840	52P-C159G	55	169 00		
WTF007	61	035 00		G201D	22	135	840	52P-C033	PP	169 00		
WTF007	82	035 00		G202C	22	135	840	52P-C033	HH	169 00		
WTF007	84	035 00		L59C	22	270	840	52P-AQ34	94	169 00		
WTF007	78	035 00		C32C	22	111	840	52P-C057E	93	169 00		
WTF007	92	035 00		C422D	5H	128		52J-C022	SO01	035 00	C13	
WTF007	93	035 00		C422D	26	128	808	52J-C022	81	172 00	C13	
WTF007	94	035 00		C423D	26	128	808	52J-C022	54	172 00		
WTF007	105	035 00		L100D	22	128	840	52J-C022	27	172 00		
WTF007	106	035 00		L101D	22	128	840	52J-C022	19	172 00		
WTF007	107	035 00		L103D	22	128	840	52J-C022	12	172 00		
WTF007	108	035 00		L104D	22	128	840	52J-C022	13	172 00		
WTF007	109	035 00		L108D	22	128	840	52J-C022	7	172 00		
WTF007	110	035 00		L107D	22	128	840	52J-C022	8	172 00		
WTF007	112	035 00		L308D	22	128	840	52J-C022	6	172 00		
WTF007	119	035 00		Q22B	26	129	641	52P-C159F	5	169 00		
WTF007	124	035 00		Q23B	26	138	641	52P-C159G	43	169 00		
WTF007	138	035 00		K451B	22	129	840	52P-C159F	43	169 00		
WTF007	173	035 00		G283C	26	121	641	52P-C057E	114	169 00		
WTF007	174	035 00		H948	22	121	641	52P-C057D	66	169 00		
WTF007	176	035 00		H420C	26	121	641	52P-C057E	33	169 00		
WTF007	177	035 00		SF40C	26	261	641	80J-A0018	17	172 00		
WTF007	180	035 00		TM122C	22	121	640	52P-C057E	5	169 00		
WTF007	181	035 00		W243B	26	138	641	52P-C159G	49	169 00		
1J-G089	A	157 00		P90C	12	7	852	1J-G089	SO01	035 00		
1J-G089	B	157 00		X140A	20N	30	678	GND1-C004	1	038 00		
1J-G089	C	157 00		SPAREPIN								
1J-G089	D	157 00		P91B	12	7	640	1J-G089	SO05	035 00		
1J-G089	E	157 00		X137C	20	7	678	1J-G089	SO02	035 00		
1J-G089	F	157 00		X138C	30	7	678	1J-G089	SO03	035 00		
1J-G089	G	157 00		X139C	20	7	678	1J-G089	SO04	035 00		
1J-G089	SO01	035 00		P90B	22	7	640	52P-C159G	28	169 00		
1J-G089	SO01	035 00		P90C	12	7	852	1J-G089	A	157 00	JY	
1J-G089	SO02	035 00		X137B	22	67	645	52P-C159G	31	169 00		
1J-G089	SO02	035 00		X137C	20	7	678	1J-G089	E	157 00	JY	
1J-G089	SO03	035 00		X138B	22	67	645	52P-C159G	30	169 00		

Do Continuity Test on Faulty Wires to determine REFERENCE DESIGNATION AND PIN from WIRE LIST.

Find REFERENCE DESIGNATION and PIN in Wire list. Note the Wires AIRCRAFT EFFECTIVITY (USE ON CODE), WIRE TYPE Code Number (WIRE TYPE), and WIRE NUMBER (WIRE IDENTIFICATION).

Figure 2. How to Use Manual for Wiring Repair (Sheet 3)

A1-F18AC-WRM-000 001 00
Page 5/(6 blank)

Title _____ WP Number _____
Soldering Tools - Procedures _____ 012 00
Stripping Tools _____ 010 00
Time Domain Reflectometer (TDR) _____ 015 00

WIRING REPAIR

Installation of Terminals, Ring Tongue Crimped Barrel _____ 036 00
Installation, Removal and Routing of Coaxial Cable and Braided _____ 020 00
Harness Assemblies _____ 042 00
Prewired Components _____ 030 00
Repair of Multi-Conductor Shielded Cable _____ 026 00
Repair of Single Conductor Non-Shielded Wire _____ 026 00
Repair of Single Conductor Shielded Wire _____ 026 00
Sealing of Electrical Cable Assemblies _____ 022 00
Sealing of Electrical Components _____ 024 00
Shielded Cable Splice Termination _____ 031 00
Shielded Terminal Ferrule (High Temperature) _____ 040 00
Solder Sleeve Installation _____ 038 00
Splice Combinations and End Caps _____ 035 00

Information found on this page is LOCATED IN A1-F18AC-WRM-000 only.

See ALPHABETICAL INDEX WORK PACKAGE 001 00 to find WIRING REPAIR PROCEDURES WORK PACKAGES desired.

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Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION	WIRE DESCRIPTION	WIRE SPECIFICATION
637	22CH 28AL	234-96565	1	TEFLON ASBESTOS	CHROMEL AND ALUMEL THERMOCOUPLE TWISTED, SHIELDED AND JACKETED	MIL-W-5846
638		M17/172-00001	45-182	TEFLON-ES	COAXIAL CABLE	MIL-C-17
640	16 18 20 22	M81381/7-16-6 M81381/7-18-9 M81381/7-20-2 M81381/7-22-5	45-1833 45-1833 45-1833 45-1833	KAPTON-3 KAPTON-3 KAPTON-3 KAPTON-3	SINGLE CONDUCTOR, SILVER COATED STRANDED COPPER	MIL-W-81381 MIL-W-81381 MIL-W-81381 MIL-W-81381
641	22 24 26	M81381/9-22-59 M81381/9-24-8 M81381/9-26-0	45-1833 45-1833 45-1833	KAPTON-3 KAPTON-3 KAPTON-3	SINGLE CONDUCTOR, SILVER COATED STRANDED HIGH	MIL-W-81381 MIL-W-81381 MIL-W-81381
644	16 20 22	M27500-16MR2U11 M27500-20MR2U11 M27500-22MR2U11	45-183 45-183 45-183			
645	16 20 22	M27500-16MR3U11 M27500-20MR3U11 M27500-22MR3U11	45-183 45-183 45-183			
646	16 20 22	M27500-16MR4U11 M27500-20MR4U11 M27500-22MR4U11	45-183 45-183 45-183			

See WIRE TYPE LIST, Work Package 004 00 to find WIRE TYPE and GAGE indicated in Wire List. Note Wire PART NUMBER.

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1 January 1985
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ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA
REPAIR OF SINGLE CONDUCTOR NON-SHIELDED WIRE

Reference Material
Wiring Repair With Parts Data, General Wiring Repair Procedures _____ A1-F18AC-WRM-000
Wire Type List _____ WP004 00

Alphabetical Index

Subject	Page No.
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Materials Required	2
Support Equipment Required	1
Mini-Seal Crimp Splices, Table 1	3
Procedure	2

Record of Applicable Technical Directives
None

1. INTRODUCTION.

2. This work package provides general repair procedures for single conductor non-shielded wiring under a harness braid.

Support Equipment Required

Part Number or Type Designation	Nomenclature
DMC498-1001	Repair Set - Wire and Connector
HT-800	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Refer to WORK PACKAGE 026 00 for WIRING REPAIR PROCEDURES.

Do continuity and reflectometer tests after repair of wiring. For correct cable parameters refer to applicable system(s) manual.

F/A-18-WRM-(186-8)02-CATI

Figure 2. How to Use Manual for Wiring Repair (Sheet 4)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

LIST OF MATERIALS

This WP supersedes WP 003 00, dated 1 October 1993.

Reference Material

None

Alphabetical Index

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Introduction	1
List of Materials, Table 1	1
Table Description	1
Commercial and Government Entity Code (CAGE)	1
Part Name	1
Part Number/Specification	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package contains a listing of all consumable items used for wiring and connector repair.

3. TABLE DESCRIPTION.

4. **PART NAME.** Gives common name of the part.

5. **PART NUMBER/SPECIFICATION.** Gives the part number or specification number to use when ordering replacement parts.

6. **COMMERCIAL AND GOVERNMENT ENTITY CODE (CAGE).** Is a five position, numeric code used to identify the manufacturer of the part.

Table 1. List of Materials

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
ALCOHOL ISOPROPYL BRAID	TT-I-735 GRADE B	81348
Tubular Shield (3/16)	8660	16428
Tubular Shield (5/16)	8661	16428
Tubular Shield (5/32)	8664	16428
Tubular Shield (1/16)	8674	16428
BRUSH		
Acid Swab	H-B-643, TYPE 2, CLASS 1, SIZE 1	81348

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
CLOTH		
Cheesecloth	CCC-C-440 TYPE 1 CLASS 1	81348
CAP		
End	TC 4001 CRN (SRC-1)	06090/24011
End	TC 4003 CRN (SRC-2)	06090/24011
End	TC 4005 CRN (SRC-3)	06090/24011
End	D300-12	06090
End	D300-18	06090
End	D300-19	06090
End	TAK 1/8	06090
End	TAK 3/16	06090
End	6039-37-P	06090
COMPOUND		
Cleaning	FREONTF	73925
Cleaning	MMS409	76301
Sealing	MIL-S-8516 TYPE1 CLASS3	81349
Sealing	MIL-S-83430 CLASSA-4	83574
Sealing	MIL-S-83430 CLASS B-1/4	83574
Sealing	MIL-S-83430 CLASS B-1/2	83574
CONTACT		
Coax	48-1226-02	02660
Coax	225790-4	00779
Coax	225791-8	00779
Coax	700-168	09922
Coax	700-170	09922
Coax	800/34-1	02660
Coax	M39029/77-428	81349
Coax	0N089558-2	81349
Coax	M39029/59-366	81349
Triax	902-5019	02660
Triax	902-5020	02660
Triax	ST5M1503-001S	76301
Twinax	885-213-001	99447
Wire	M39029/58-363	81349
Wire	M39029/63-368	81349
Wire	M39029/12-149	81349
Wire	225791-8	00779
Wire	225790-4	00779
Wire	M39029/11-145	81349
Wire	M39029/12-148	81349
Wire	M39029/11-144	81349
Wire	885-213-001	99447
Wire	M39029/56-352	81349
Wire	0N089558-2	98230
Wire	M39029/31-241	81349
Wire	M39029/4-110	81349
Wire	M39029/5-115	81349
Wire	M39029/30-218	81349
Wire	M39029/30-217	81349

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
CONTACT (Cont.)		
Wire	M39029/29-212	81349
Wire	M39029/30-219	81349
Wire	M39029/5-116	81349
Wire	M39029/18-177	81349
Wire	M39029/18-177	81349
Wire	M39029/11-146	81349
Wire	M39029/12-150	81349
Wire	M39029/56-353	81349
Wire	M39029/56-363	81349
Wire	M39029/57-354	81349
Wire	M39029/57-357	81349
Wire	M39029/57-358	81349
Wire	M39029/58-348	81349
Wire	M39029/58-380	81349
Wire	M39029/58-360	81349
Wire	M39029/56-348	81349
Wire	M39029/56-351	81349
Wire	M39029/58-364	81349
Wire	M39029/4-110	81349
Wire	M39029/5-113	81349
Wire	M39029/5-115	81349
Wire	M39029/30-219	81349
Wire	M39029/32-242	81349
Wire	48-1226-02	02660
Wire	10-407865-310	77820
Wire	10-407865-320	77820
Wire	030-2042-008	71468
Wire	030-2042-009	71468
Wire	031-1147-010	71468
Wire	031-1147-011	71468
CORK		
Ground	No. 10/20	27661
DEPRESSOR		
Wooden Tongue	GG-D-226 TYPE 1	81348
ETCHING		
Solution	TETRAETCH20ZBT	17217
FLOROCARBON		
Lubricant	MS122	18598
MARKER		
Band	B637-1-500YELLOW	
PLASTIC		
Mold	MS27486-12-1	96906
PRIMER		
Adhesive	EC1945BA	04963
SEALANT	MIL-A-46146TY1	81349
Adhesive	MILA46146TY3	81349

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
SEALING		
Compound	MILS83430CLASSA-4	83574
Compound	MILS8343CLASSB-1/4	83574
Silicone Varnish	SR98	01139
SEALING PLUGS		
	MS25251-12	96906
	MS25251-16	96906
	MS27186-1	96906
	MS27187-1	96906
	MS27187-2	96906
	MS27187-3	96906
	MS27187-20	96906
	MS27488-22	96906
	MS27488-20	96906
	MS27488-16	96906
	MS27488-12	96906
	MS27488-32	96906
	MS31187-12	96906
	MS31187-16	96906
	MS31187-20	96906
	MS31187A20	96906
	M81511/15-12	30003
	M81511/15-16	30003
	M81511/15-20	30003
	M81511/15-22	30003
	M81511/39-22	81349
	M83723-28-0	81349
	M83723-28-4	81349
	M83723-28-8	81349
	M83723-28-12	81349
	M83723-28-16	81349
	L24P120-8	76301
	ON089563	76301
	205402-3	00779
SHIELDING		
Ferrule	32805	00779
Ferrule	328052	00779
Ferrule	328053	00779
Ferrule	328054	00779
Ferrule	328055	00779
Ferrule	328056	00779
Ferrule	328057	00779
Ferrule	328058	00779
Ferrule	328058	00779
Ferrule	328060	00779
Ferrule	328061	00779
Ferrule	5M608-12	76301
Ferrule	5M608-13	76301

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
SHIELDING (Cont.)		
Ferrule	5M608-14	76301
Ferrule	5M608-15	76301
Ferrule	5M608-16	76301
Ferrule	5M608-17	76301
Ferrule	5M608-18	76301
Ferrule	5M608-19	76301
Ferrule	5M608-20	76301
Ferrule	5M608-21	76301
Ferrule	5M608-22	76301
Jumper	M22795/11-20-5	81349
Jumper	M22795/11-22-5	81349
SLEEVE		
Expando	6747095	81851
Expando	6749085	81851
Expando	6749305	81851
Expando	6751245	81851
Expando	6751255	81851
Expando	6755315	81851
Expando	6762015	81851
Heat Shrink	M23053/5-XXX-0	81349
Insulation	RNF100 1-8BLACK	06090
Insulation	M23054/4-XXX-0	06090
Insulation	MMS-819A	81349
Shrink	MMS-809	76301
SLEEVING		
Expandable	6253001	81851
Expandable	6255001	81851
Expandable	6262001	81851
Expandable	6264921	81851
Expandable	6266001	81851
Expandable	6270001	81851
Insulation	M23053/4-XXX-0	81349
Insulation	M23053/5-108-0	81349
Insulation	M23053/5-109-0	81349
SOLDER	SN60WRMAP2-0-040	81348
SOLDER		
Sleeve	D100-28	06090
Sleeve	D101-22	06090
Sleeve	D108-0X	06090
Sleeve	NAS1745-XX	80205
SOLVENT		
Trichloroethane 1,1,1	O-T-620	96717
SPACER	NAS43DD	80205
Sleeve	NAS1507P	80205
Sleeve	NAS1057T	80205
SPLICE		
Conductor	MIL-S-81824-1 Raychem D436-36	06090
Conductor	MIL-S-81824-2 Raychem D436-37	06090

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
SPLICE (Cont.)		
Conductor	MIL-S-81824-3 Raychem D436-38	06090
Conductor	D-609-XX	06090
Conductor	34319	00779
Conductor	34318	00779
Conductor	34138	00779
Conductor	327041	00779
Conductor	2-34318-1	00779
Conductor	323754	00779
Conductor	34320	00779
Conductor	323754-P	00779
Conductor	324042	00779
Conductor	327044	00779
Conductor	324042	00779
Conductor	35187	00779
SQUEEZE BOTTLE		
Polyethylene	128SME601170-3	
TAPE		
Hot Spotz	AF100A	62088
Hot Spotz	AF150A	62088
Insulation	MIL-I-18746-1.000X.005X36 YDS	81349
Insulation	MIL-I-23594, TYPE 2, 1/2 In. WIDE	81349
Insulation	MIL-I-46852, TYPE 2, 1.000 In. RED	81349
Lacing	MIL-T-43435 TYPE-2 SIZE-3FINISH-C	81349
Masking	-	
Silicone	MS70T09-S	96906
Silicone Adhesive Teflon	P-4230	99742
Silicone Adhesive Teflon	2245-2E	07512
Silicone Rubber	MIL-I-46852, TYPE 2, 1.000 In. BLK	81349
Silicone Rubber	604-1	07099
Silicone Rubber Reinforced	S-5025	07099
Silicone Rubber Reinforced	S-80	07099
Tedlar	B637	85480
Teflon Barrier	62	20999
Wire Mesh	SC61298	22798
TERMINALS		
	M7928	81349
	M7929	81349
	MS20659	96906
	MS25036	96906
	MS25189	96906
	54575	00779
	NW21	08869
	NW22	08869
	NW23	08869
TIEDOWN STRAP		
Mini Band	S3175-4	07418
Plastic	PLT-2S-CP30	06383
Plastic	PLT-4H-C30	06383

Table 1. List of Materials (Continued)

PART NAME	PART NUMBER/SPECIFICATION	CAGE CODE
TIEDOWN STRAP (Cont.)		
Plastic	SST-2H-C30	06383
Plastic	08402	16956
Plastic	08403	16956
TISSUE		
Optical Lens - Kodax	154-6027	

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****WIRE TYPE LIST**

Reference Material

None

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Cross Reference List of Teflon Insulated To Crosslinked - Tefzel Insulated Wire/Cable, Table 4	19
Insulation Definition, Table 2	17
Wire Type List, Table 1	1

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Navel Reserves A+ Avionics Upgrade (ECP MDA F/A- 18-00560R1)	1 Mar 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Up- grade (ECP MDA F/A- 18-00583)	1 Mar 01	-

Table 1. Wire Type List

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
A92	20	M22759/34-20-34	45-1610	I.R. ETFE	SINGLE CONDUCTOR, STRANDED SILVER COATED HIGH STRENGTH COPPER, WHITE/ORANGE STRIPE. AIRFRAME WIRE	MIL-W-22759
B09		M17/128-RG400	45-165		COAXIAL CABLE, 50 OHMS	MIL-C-17
B25	22	M25038/3-22-19	45-1610	I.R. ETFE	SINGLE CONDUCTOR, STRANDED NICKEL COATED HIGH STRENGTH COPPER, WHITE, FIRE RESISTANT	MIL-W-25038
44		5M9N020-4			BUS BAR	
51		5M9N032-3			BUS BAR	
260		QC343S2211T		NONE	(76301 SPEC 5M592S22C1) I COND. SOLID	QQ-W-343
339		M17/174-00001	45-164	TEFLON-FEP	COAXIAL CABLE	MIL-C-17
368					PREWIRED PIGTAIL (SUPPLIED WITH PART)	
381	12 16 20 22	M22759/7-12-4 M22759/7-16-6 M22759/7-20-2 M22759/7-22-5	45-1501 45-1500 45-1500 45-1500	REINFORCED TEFLON	1 COND. (AWG 4-24)	MIL-W-22759
473	24	5M2022-003	45-1610	TEFLON-FEP	2 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, SHIELDED, 1. CONDUCTOR BLUE 2. CONDUCTOR BLUE/WHITE STRIPE JACKET (BLUE)	MIL-C-17
526	24	M22759/33-24	45-164	I.R. ETFE	SINGLE CONDUCTOR, HIGH STRENGTH, HOOKUP	MIL-W-22759
533	24	M17/176-00002	45-164	TEFLON-TFE	TWIN CONDUCTOR COAX, STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, 77 OHMS	MIL-C-17

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
548		5M2397-002			TRIAx, HIGH-STRENGTH, 75 OHM	
552	24	M17/113-RG316	45-162	TEFLON-FEP	COAX, 50 OHMS	MIL-C-17
566		5M2551-001			SINGLE FIBER OPTIC CABLE	DOD-C-85045
567		5M2559-001	45-165	TEFLON-FEP	TRIAxIAL CABLE, 95 OHM	MIL-C-17
583	22 24 26	M22759/33-26-0	45-1610	I.R. ETFE	SINGLE CONDUCTOR, STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, HOOKUP WIRE	MIL-W-22759

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
584	22	M22759/35-22-55	45-1610	I.R. ETFE	SINGLE CONDUCTOR, STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, GREEN/ GREEN STRIP	MIL-W-22759
587	12 16 20 22	M22759/43-12-47 M22759/43-16-67 M22759/43-20-27	45-1610 45-1610 45-1610	I.R. ETFE	SINGLE CONDUCTOR, SILVER COATED COPPER, AIRFRAME WIRE	MIL-W-22759
588	12 16 20 22 26	M22759/44-16-6 M22759/44-20-2 M22759/44-22-5	45-1610 45-1610 45-1610	I.R. ETFE	SINGLE CONDUCTOR, SILVER COATED COPPER, HOOKUP WIRE	MIL-W-22759
637	22CH 26AL	234-96565	1	TEFLON ASBESTOS	CHOMEL AND ALUMEL, THERMO-COUPLE TWISTED, SHIELDED AND JACKETED	MIL-W-5846
638		M17/172-00001	45-162	TEFLON-FEP	COAXIAL CABLE	MIL-C-17
640	12 16 18 20 22	USE WIRE TYPE 852 M81381/7-16-6 M81381/7-18-9 M81381/7-20-2 M81381/7-22-5	45-1633 45-1633 45-1633 45-1633	6 KAPTON-3 6 KAPTON-3 6 KAPTON-3 6 KAPTON-3	SINGLE CONDUCTOR, SILVER COATED STRANDED COPPER	MIL-W-81381 MIL-W-81381 MIL-W-81381 MIL-W-81381
641	22 24 26	M81381/9-22-59 M81381/9-24-6 M81381/9-26-0	45-1633 45-1633 45-1633	6 KAPTON-3 6 KAPTON-3 6 KAPTON-3	SINGLE CONDUCTOR, SILVER COATED STRANDED HIGH	MIL-W-81381 MIL-W-81381 MIL-W-81381
644	16 20 22	M27500-16MR2U11 M27500-20MR2U11 M27500-22MR2U11	45-1633 45-1633 45-1633	6 KAPTON-3	2 CONDUCTOR, STRANDED COPPER, TWISTED (76301 SPEC ST5M 1247-**-2UN) 4 **	MIL-C-27500
645	16 20 22	M27500-16MR3U11 M27500-20MR3U11 M27500-22MR3U11	45-1633 45-1633 45-1633	6 KAPTON-3	3 CONDUCTOR, STRANDED COPPER, TWISTED (76301 SPEC ST5M 1247-**-3UN) 4 **	MIL-C-27500
646	16 20 22	M27500-16MR4U11 M27500-20MR4U11 M27500-22MR4U11	45-1633 45-1633 45-1633	6 KAPTON-3	4 CONDUCTOR, STRANDED COPPER, TWISTED (76301 SPEC ST5M 1247-**-4UN) 4 **	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
647	16 20 22	M27500-16MR5U11 M27500-20MR5U11 M27500-22MR5U11	45-1633 45-1633 45-1633	6 KAPTON-3	5 CONDUCTOR, STRANDED COPPER, TWISTED (76301 SPEC ST5M 1247-**-5UN) 4 **	MIL-C-27500
650	22 24	M27500-22MT2U11 M27500-24MT2U11	45-1633 45-1633	6 KAPTON-3	2 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A2UN) 4 **	MIL-C-27500
651	22 24	M27500-22MT3U11 M27500-24MT3U11	45-1633 45-1633	6 KAPTON-3	3 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A3UN) 4 **	MIL-C-27500
652	22 24	M27500-22MT4U11 M27500-24MT4U11	45-1633 45-1633	6 KAPTON-3	4 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A4UN) 4 **	MIL-C-27500
653	22 24	M27500-22MT5U11 M27500-24MT5U11	45-1633 45-1633	6 KAPTON-3	5 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A5UN) 4 **	MIL-C-27500
654	22 24	M27500-22MT6U11 M27500-24MT6U11	45-1633 45-1633	6 KAPTON-3	6 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A6UN) 4 **	MIL-C-27500
655	22 24	M27500-22MT7U11 M27500-24MT7U11	45-1633 45-1633	6 KAPTON-3 6 KAPTON-3	7 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED (76301 SPEC ST5M 1247-**-A7UN) 4 **	MIL-C-27500

[illegible]

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
679	12	M22759/8-12-4	45-1500	TEFLON-TFE2	SINGLE CONDUCTOR STRANDED NICKEL COATED COPPER, AIRFRAME WIRE	MIL-W-22759
680	8 10 12 14 16 18 20 22	M22759/12-8-2 M22759/12-10-1 M22759/12-12-4 M22759/12-14-5 M22759/12-16-6 M22759/12-18-9 M22759/12-20-2 M22759/12-22-5	45-130 45-1611 45-1611 45-1611 45-1610 45-1610 45-1610 45-1610	TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1 TEFLON-TFE1	SINGLE CONDUCTOR, STRANDED NICKEL COATED COPPER	MIL-W-22759 MIL-W-22759 MIL-W-22759 MIL-W-22759 MIL-W-22759 MIL-W-22759 MIL-W-22759 MIL-W-22759
681		3 ST5M 1212-002	45-163	TEFLON-FEP	COAXIAL CABLE TWIN CONDUCTOR 68 OHM	MIL-C-17
684	12 14 16 18 20 22	M27500-12-SA3U00 M27500-14-SA3U00 M27500-16-SA3U00 M27500-18-SA3U00 M27500-20-SA3U00 M27500-22-SA3U00	45-1501 45-1501 45-1500 45-1500 45-1500 45-1500	TEFLON-TFE-2 TEFLON-TFE-2 TEFLON-TFE-2 TEFLON-TFE-2 TEFLON-TFE-2 TEFLON-TFE-2	3 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED (76301 SPEC ST5M 1298-***S3U0) 4 **	MIL-C-27500
686	12	ST5M1298-12T3UO		TEFLON-TFE2	3 CONDUCTORS, STRANDED NICKEL COATED COPPER, TWISTED, AIRFRAME WIRE	MIL-C-27500
689		M17/175-00001	45-163 OR 45-165		COAXIAL CABLE 50 OHM	MIL-C-17
701	12 14 16 18 20 22	ST5M1298-12T4UO ST5M1298-14T4UO ST5M1298-16T4UO ST5M1298-18T4UO ST5M1298-20T4UO ST5M1298-22T4UO	45-1501 45-1501 45-1500 45-1500 45-1500 45-1500	6 TEFLON-TFE2	4 CONDUCTOR, STRANDED SILVER COATED COPPER, TEFLON-TFE2 TWISTED, AIRFRAME WIRE	MIL-C-27500
703	12	M27500-12SA2S06	45-1501	TEFLON-TFE2	2 CONDUCTOR STRANDED SILVER COATED COPPER, SIL- VER-COATED COPPER SHIELD, TEFLON-TFE1 JACKET (WHITE) (76301 SPEC ST5M 1298-***S2S6) 4 **	MIL-C-27500
704		M17/174-00001	45-164		COAXIAL CABLE 50 OHM	MIL-C-17
706		3 ST5M1323-001	7	TEFLON-FEP	TRIAXIAL CABLE 95 OHM	MIL-C-17

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
707	22	M81381/13-22-55	45-1654	6 6 KAPTON-3	SINGLE CONDUCTOR, STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, GREEN/GREEN STRIP	MIL-W-81381
715	14 16 18 20 22	M27500-14SA1S06 M27500-16SA1S06 M27500-18SA1S06 M27500-20SA1S06 M27500-22SA1S06	45-1501 45-1500 45-1500 45-1500 45-1500	TEFLON-TFE2 TEFLON-TFE2 TEFLON-TFE2 TEFLON-TFE2 TEFLON-TFE2	SINGLE CONDUCTOR, STRANDED SILVER COATED COPPER SILVER-COATED COPPER SHIELD, TEFLON-TFE1 JACKET (WHITE), (76301 SPEC ST5M 1298-**S1S6) 4 **	MIL-C-27500
716		3 24898/6X2	45-163	TEFLON-FEP	COAXIAL CABLE, TWIN COND. (98 OHM)	MIL-C-17
726	8 10 12 14 16 20 22	M27500-8RC3U00 M27500-10RC3U00 M27500-12RC3U00 M27500-14RC3U00 M27500-16RC3U00 M27500-20RC3U00 M27500-22RC3U00	45-130 45-1611 45-1611 45-1611 45-1610 45-1610 45-1610	TEFLON-TFE1	3 CONDUCTOR, STRANDED SILVER-COATED TWISTED 76301 SPEC ST5M 1298-**R3U0) 4 **	MIL-C-27500
731		3 ST5M1398-001			COAXIAL 50 OHM	MIL-C-17
733	8 10 12 14 16 20 22	M27500-8RC4U00 M27500-10RC4U00 M27500-12RC4U00 M27500-14RC4U00 M27500-16RC4U00 M27500-20RC4U00 M27500-22RC4U00	45-130 45-1611 45-1611 45-1611 45-1610 45-1610 45-1610	TEFLON-TFE1	4 CONDUCTOR, STRANDED SILVER-COATED COPPER TWISTED (76301 SPEC ST5M 1298-**R4U0) 4 **	MIL-C-27500
740	12 14 16 20 22	M27500-12RC4U00 M27500-14RC4U00 M27500-16RC4U00 M27500-20RC4U00 M27500-22RC4U00	45-1611 45-1611 45-1611 45-1611 45-1610	TEFLON	2 CONDUCTOR, TWISTED (76301 SPEC ST5M 1298-**R2U0) 4 **	MIL-C-27500
741	20 22	ST5M1298-20R1S6 ST5M1298-22R1S6	2	6 TEFLON-TFE1	SINGLE CONDUCTOR, STRANDED SILVER COATED COPPER, TEFLON-TFE 1 INSULATION, SILVER COATED COPPER SHIELD, JACKET, HOOKUP WIRE	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
744		M17/169-001	45-162	TEFLON-FEP	COAX, 50 OHMS	MIL-C-17
761	24	M22759/22-24-6	45-1610	TEFLON-TFE1	SINGLE CONDUCTOR, STRANDED SILVER-COATED HIGH STRENGTH COPPER ALLOY	MIL-W-22759
762	22	M27500-22NA2U00	45-1654	6 6 KAPTON-3	2 CONDUCTOR, STRANDED SILVER-COATED HIGH STRENGTH COPPER ALLOY TWISTED (76301 SPEC ST5M 1247-22B2UN)	MIL-C-27500
793	12 16 20 22	ST5M129812R2S6 ST5M129816R2S6 ST5M129820R2S6 ST5M129822R2S6	1 1 1 1	6 TEFLON-TFE1	2 CONDUCTOR, STRANDED SILVER COATED COPPER, INSULATION, TWISTED, SILVER COATED COPPER SHIELD, JACKET HOOKUP WIRE	MIL-C-27500
794	22	ST5M129822R3S6	1	6 TEFLON-TFE1	3 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, SILVER COATED COPPER SHIELD, JACKET HOOKUP WIRE	MIL-C-27500
798	16 20 22 24	M27500-16MR1G11 M27500-20MR1G11 M27500-22MR1G11 M27500-24MR1G11	2 2 2 2	FLUOROCARBON POLYIMIDE	SINGLE CONDUCTOR, SHIELDED (76301 SPEC ST5M 1247F**-1SJ) 4 **	MIL-C-27500
799	16 20 22 24	M27500-16MR2G11 M27500-20MR2G11 M27500-22MR2G11 M27500-24MR2G11	2 2 2 2	FLUOROCARBON POLYIMIDE	2 CONDUCTOR, TWISTED, SHIELDED (76301 SPEC ST5M 1247F**-2SJ) 4 **	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
800	16 20 22 24	M27500-16MR3G11 M27500-20MR3G11 M27500-22MR3G11 M27500-24MR3G11	2 2 2 2	FLUOROCARBON POLYIMIDE	3 CONDUCTOR, TWISTED SHIELDED (76301 SPEC ST5M 1247F**-3SJ) 4 **	MIL-C-27500
802	16 20 22 24	M27500-16MR5G11 M27500-20MR5G11 M27500-22MR5G11 M27500-24MR5G11	2 2 2 2	FLUOROCARBON POLYIMIDE	5 CONDUCTOR, TWISTED SHIELDED (76301 SPEC ST5M 1247F**-5SJ) 4 **	MIL-C-27500
803	16 20 22 24	M27500-16MR6G11 M27500-20MR6G11 M27500-22MR6G11 M27500-24MR6G11	2 2 2 2		6 CONDUCTOR, TWISTED SHIELDED (76301 SPEC ST5M 1247F**-6SJ) 4 **	MIL-C-27500
805	22 24	M27500-22MT1G11 M27500-24MT1G11	2 2	FLUOROCARBON	SINGLE CONDUCTOR, STRANDED COPPER ALLOY, TWISTED SHIELD (76301 SPEC ST5M 1247F**A1SJ) 4 **	MIL-C-27500
806	22 24 26	M27500-22MT2G11 M27500-24MT2G11 M27500-26MT2G11	2 2	FLUOROCARBON POLYIMIDE	2 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED SHIELDED (76301 SPEC ST5M 1247F**A2SJ) 4 **	MIL-C-27500
807	22 24	M27500-22MT3G11 M27500-24MT3G11	2 2	FLUOROCARBON POLYIMIDE	3 CONDUCTOR, STRANDED COPPER ALLOY, TWISTED SHIELDED (76301 SPEC ST5M 1247F**A3SJ) 4 **	MIL-C-27500
808	22 24	M27500-22MT4G11 M27500-24MT4G11	2 2	FLUOROCARBON POLYIMIDE	4 CONDUCTOR, STRANDED COPPER ALLOY, SHIELD (76301 SPEC ST5M 1247F**A4SJ) 4 **	MIL-C-27500
809	22 24	M27500-22MT5G11 M27500-24MT5G11	2 2	FLUOROCARBON POLYIMIDE	5 CONDUCTOR, STRANDED COPPER ALLOY, SHIELD (76301 SPEC ST5M 1247F**A5SJ) 4 **	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
811	22 24	M27500-22MT7G11 M27500-24MT7G11	2 2	FLUOROCARBON POLYIMIDE	7 CONDUCTOR, STRANDED COPPER ALLOY, SHIELD (76301 SPEC ST5M 1247F**A7SJ) 4 **	MIL-C-27500
813	8 10 12 16 20 22	M27500-8RC1G06 M27500-10RC1G06 M27500-12RC1G06 M27500-16RC1G06 M27500-20RC1G06 M27500-22RC1G06	1 1 1 1 1 1	TEFLON	SINGLE CONDUCTOR, STRANDED TWISTED SHIELDED (76301 SPEC ST5M 1298F**R1S6) 4 **	MIL-C-27500
814	8 10 12 16 20 22	M27500-8RC2G06 M27500-10RC2G06 M27500-12RC2G06 M27500-16RC2G06 M27500-20RC2G06 M27500-22RC2G06	1 1 1 1 1 1	TEFLON	2 CONDUCTOR, STRANDED TWISTED SHIELDED (76301 SPEC ST5M 1298F**R2S6) 4 **	MIL-C-27500
818	24	M27500-22TM2G06	1	TEFLON	2 CONDUCTOR, STRANDED TWISTED COPPER ALLOY SHIELD (76301 SPEC ST5M 1298F**M2S6) 4 **	MIL-C-27500
822		M17/139-00001	45-163 OR 45-165	PERFLUORO- ALKOXY	COAXIAL CABLE	MIL-C-17
824	26	3 ST5M1212-003	1	TEFLON-FEP	COAXIAL CABLE, TWIN CONDUCTOR, 68 OHM	MIL-C-17
847	22	3 ST5M1212-004	1	TEFLON-FEP	COAXIAL CABLE, TWIN CONDUCTOR, 68 OHM	MIL-C-17
852	4 6 8 10 12 16 20	M81381/11-4-47 M81381/11-6-67 M81381/11-8-27 M81381/11-10-17 M81381/11-12-47 M81381/11-16-67 M81381/11 -20-27		FLUOROCARBON POLYIMIDE	SINGLE CONDUCTOR, SILVER COATED COP- PER CONDUCTOR	MIL-W-81381
862	24	5M1897-001 5M1897-003			2 CONDUCTOR, RF CABLE, 125 OHMS	
866		5M1945-001			SINGLE FIBER OPTIC CABLE	DOD-C-85045

Table 1. Wire Type List (Continued)




WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 	WIRE DESCRIPTION	WIRE SPECIFICATION
867	16 20 22	M25038/2-16-9 M25038/2 -20-9 M25038/2-22-9				MIL-W-25038
869		M5846-1E2/22626A			CHROMEL AND ALUMEL, THERMO-COUPLE, TWISTED, SHIELDED	MIL-W-5846
872	22	5M2022-002		 6 TEFLON-TFE1	2 CONDUCTORS, STRANDED SILVER COATED COPPER TWISTED, SILVER COATED COPPER SHIELD, JACKET (GREEN), 1. CONDUCTOR GREEN, 2. CONDUCTOR GREEN/ GREEN/STRIP DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-17
875	26 24	M27500-26M2UO M27500-24M2UO	45-1633	 6 KAPTON-2	2 CONDUCTOR, TWISTED, UNSHLD UNJACKED	MIL-C-27500
880		5M2142-001	45-165	TEFLON-FEP	TRIAXIAL CABLE, 75 OHMS,	MIL-C-17
884	22	5M2230-001			TRIAXIAL CABLE 75 OHMS	
931	16 20 22	5M2619-16-1SJ 5M2619-20-1SJ 5M2619-22-1SJ	45-1610 45-1610 45-1610	TEFLON-TFE5	SINGLE CONDUCTOR, STRANDED SILVER COATED COPPER, SILVER COATED COPPER SHIELD, FLAT BRAIDED, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
932	16 20 22	5M2619-16-2SJ 5M2619-20-2SJ 5M2619-22-2SJ	45-1610 45-1610 45-1610	TEFLON-TFE5	2 CONDUCTOR, STRANDED SILVER COATED COPPER, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
933	16 22	5M2619-16-3SJ 5M2619-22-3SJ	45-1610 45-1610 45-1610	TEFLON-TFE5	3 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
934	22	5M2619-22-4SJ	45-1610	TEFLON-TFE5	4 COND, SPC, TW, SHLD, J, GAUGE COLOR CODED HOKUP	MIL-C-27500
935	16 20 22	5M2619-16-5SJ 5M2619-20-5SJ 5M2619-22-5SJ	45-1610 45-1610 45-1610	TEFLON-TFE5	5 CONDUCTOR STRANDED SILVER COATED COPPER, TWISTED, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
936	22	5M2619-22-6SJ	45-1610	TEFLON-TFE5	6 CONDUCTOR STRANDED SILVER COATED COPPER, TWISTED, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
938	16 20 22	5M2619-16-2UN 5M2619-20-2UN 5M2619-22-2UN	45-1610 45-1610 45-1610	NONE	2 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, HOOKUP WIRE	MIL-C-27500
939	16 20 22	5M2619-16-3UN 5M2619-20-3UN 5M2619-22-3UN	45-1610 45-1610 45-1610	NONE	3 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, HOOKUP WIRE	MIL-C-27500

Table 1. Wire Type List (Continued)


WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 	WIRE DESCRIPTION	WIRE SPECIFICATION
940	16 20 22	5M2619-16-4UN 5M2619-20-4UN 5M2619-22-4UN	45-1610 45-1610 45-1610	NONE	4 CONDUCTOR STRANDED SILVER COATED COPPER, TWISTED, HOOKUP WIRE	MIL-C-27500
941	16 22	5M2619-16-5UN 5M2619-22-5UN	45-1610	NONE	5 CONDUCTOR STRANDED SILVER COATED COPPER, TWISTED, HOOKUP WIRE	MIL-C-27500
942	16 20 22	5M2619-16-6UN 5M2619-20-6UN 5M2619-22-6UN	45-1610 45-1610 45-1610	NONE	6 CONDUCTOR STRANDED SILVER COATED COPPER, ALLOY, TWISTED, HOOKUP WIRE	MIL-C-27500
944	22 26	5M2619-22A1SJ 5M2619-26A1SJ	45-1610 45-1610	TEFLON-TFE5	SINGLE CONDUCTOR, STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
945	22 26	5M2619-22A2SJ 5M2619-26A2SJ	45-1610 45-1610	TEFLON-TFE5	2 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
946	22 26	5M2619-22A3SJ 5M2619-26A3SJ	45-1610 45-1610	TEFLON-TFE5	3 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
947	26	5M2619-26A4SJ	45-1610	TEFLON-TFE5	4 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
948	26	5M2619-26A5SJ	45-1610	TEFLON-TFE5	5 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
949	26	5M2619-26A6SJ	45-1610	TEFLON-TFE5	6 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500 1

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
950	26	5M2619-26A7SJ	45-1610 45-1610	TEFLON-TFE5.	7 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, SILVER COATED TWISTED, COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, HOOKUP WIRE	MIL-C-27500
951	22 26	5M2619-22A2UN 5M2619-26A2UN	45-1610 45-1610	NONE	2 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, HOOKUP WIRE	MIL-C-27500
952	22 26	5M2619-22A3UN 5M2619-26A3UN	45-1610 45-1610	NONE	3 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, HOOKUP WIRE	MIL-C-27500
953	26	5M2619-26A4UN	45-1610	NONE	4 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, HOOKUP WIRE	MIL-C-27500
954	26	5M2619-26A5UN	45-1610	NONE	5 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, HOOKUP WIRE	MIL-C-27500
957	22	5M2619-22B2UN	45-1610	NONE	2 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, AIRFRAME WIRE	MIL-C-27500

Table 1. Wire Type List (Continued)

WIRE TYPE	WIRE GAGE	PART NUMBER	WIRE STRIP.	INSULATION 5	WIRE DESCRIPTION	WIRE SPECIFICATION
958	22	5M2619-22B3UN	45-1610	NONE	3 CONDUCTOR STRANDED SILVER COATED HIGH STRENGTH COPPER ALLOY, TWISTED, AIRFRAME WIRE	MIL-C-27500
961	20	5M2619-20F1SJ	45-1610	TFE5	SINGLE CONDUCTOR, STRANDED SILVER COATED COPPER, I.R.ETFE INSULATED, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, AIRFRAME WIRE	MIL-C-27500
962	20	5M2619-20F2SJ	45-1610	TFE5	2 CONDUCTOR STRANDED SILVER COATED COPPER, I.R.ETFE INSULATED, TWISTED, SILVER COATED COPPER SHIELD, FLAT BRAID, DOUBLE TAPE WRAPPED JACKET, AIRFRAME WIRE	MIL-C-27500
963	16	5M2619-16F3UN	45-1610	NONE	3 CONDUCTOR, STRANDED SILVER COATED COPPER, TWISTED, AIRFRAME WIRE	MIL-C-27500
998					SEE DRAWING NOTE ON CABLE ASSEMBLY	

- 1 Use stripper 45-130 for outer cover, then push shielding back and use 45-177 stripper for inner wires.
- 2 Use combination of 45-162 and 45-163 stripper for outer cover removal, then push shielding back and strip inner wires with 45-163 stripper.
- 3 Cable manufactured per McDonnell specification, CAGE code: 05973; 12517; 92607
- 4 ** Are to be replaced by gauge number of wire being used.
- 5 For insulation description by type, see table 2.
- 6 Replace Kapton/Teflon insulated wire as cross referenced in tables 3 and 4.
- 7 USE 45-165 Stripper for outer cable jacket, outer shield, and inner jacket, then push shielding back and strip inner Dielectric with 45-163 stripper.

Table 2. Insulation Definition

INSULATION TYPE	DESCRIPTION
TEFLON - TFE1 TEFLON - TFE2	POLYTETRA FLUOROETHYLENE (EXTRUDED) POLYTETRA FLUOROETHYLENE (EXTRUDED) REINFORCED WITH ABRASION RESISTANT MINERAL FILLERS
TEFLON - TFE3 TEFLON - TFE4 TEFLON - TFE5	POLYTETRA FLUOROETHYLENE (EXTRUDED) WITH ASBESTOS TETRAFLUOROETHYLENE RESIN COATED GLASS BRAID POLYTETRA FLUOROETHYLENE TAPE (WRAPPED AND FUSED)
TEFLON - FEP TEFLON - FFEP	FLUORINATED ETHYLENE PROPYLENE (EXTRUDED) FLUORINATED ETHYLENE PROPYLENE (FOAMED)
KAPTON - 1 KAPTON - 2 KAPTON - 3	POLYIMIDE TAPE FLUOROCARBON/POLYIMIDE TAPE FLUOROCARBON/POLYIMIDE TAPE, MODIFIED AROMATIC POLYIMIDE RESIN COATING
I.R. ETFE	IRRADIATED, ETHYLENE - TETRAFLUOROETHYLENE COPOLYMER

Table 3. Cross Reference List Of Kapton Insulated To Crosslinked - Tefzel (XLETFE) Insulated Wire/Cable

KAPTON WIRE/CABLE			EQUIVALENT CROSSLINKED-TEFZEL (XLETFE) WIRE/CABLE		
WIRE TYPE	PART NUMBER	DESCRIPTION	WIRE TYPE	PART NUMBER	DESCRIPTION
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;">WARNING</div> <p>Avoid insulation temperatures above 230°C (446°F). Toxic hydrogen fluoride may be produced which is corrosive to eyes, skin, and respiratory tract. Provide local exhaust ventilation if heating is necessary. Waste should be landfilled to comply with federal, state, and local regulations. Refer to the appropriate Material Safety Data Sheet for further information.</p> <p style="text-align: center;">NOTE</p> <p>Whenever Wire Repair Manual or Aircraft drawings specify kapton insulated wire/cable, substitute wire type shown in Table 3 for repair or replacement.</p>					
640-16	M81381/7-16-6	16 GA	588-16	M22759/44-16-6	16 GA
640-20	M81381/7-20-2	20 GA	588-20	M22759/44-20-2	20 GA
640-22	M81381/7-22-5	22 GA	588-22	M22759/44-22-5	22 GA
641-22	M81381/9-22-59	22 GA	584-22	M22759/35-22-55	22 GA
641-26	M81381/9-26-0	26 GA	583-26	M22759/33-26-0	26 GA
644-16	ST5M1247-16-2UN	2 COND, TW	938-16	5M2619-16-2UN	2 COND, TW
644-20	ST5M1247-20-2UN	2 COND, TW	938-20	5M2619-20-2UN	2 COND, TW
644-22	ST5M1247-22-2UN	2 COND, TW	938-22	5M2619-22-2UN	2 COND, TW
645-16	ST5M1247-16-3UN	3 COND, TW	939-16	5M2619-16-3UN	3 COND, TW

**Table 3. Cross Reference List Of Kapton Insulated To Crosslinked - Tefzel
(XLETFE) Insulated Wire/Cable (Continued)**

KAPTON WIRE/CABLE			EQUIVALENT CROSSLINKED-TEFZEL (XLETFE) WIRE/CABLE		
WIRE TYPE	PART NUMBER	DESCRIPTION	WIRE TYPE	PART NUMBER	DESCRIPTION
645-20	ST5M1247-20-3UN	3 COND, TW	939-20	5M2619-20-3UN	3 COND, TW
645-22	ST5M1247-22-3UN	3 COND, TW	939-22	5M2619-22-3UN	3 COND, TW
646-16	ST5M1247-16-4UN	4 COND, TW	940-16	5M2619-16-4UN	4 COND, TW
646-20	ST5M1247-20-4UN	4 COND, TW	940-20	5M2619-20-4UN	4 COND, TW
646-22	ST5M1247-22-4UN	4 COND, TW	940-22	5M2619-22-4UN	4 COND, TW
647-16	ST5M1247-16-5UN	5 COND, TW	941-16	5M2619-16-5UN	5 COND, TW
650-22	ST5M1247-22A2UN	2 COND, TW	951-22	5M2619-22A2UN	2 COND, TW
650-26	ST5M1247-26A2UN	2 COND, TW	951-26	5M2619-26A2UN	2 COND, TW
651-22	ST5M1247-22A3UN	3 COND, TW	952-22	5M2619-22A3UN	3 COND, TW
651-26	ST5M1247-26A3UN	3 COND, TW	952-26	5M2619-26A3UN	3 COND, TW
652-26	ST5M1247-26A4UN	4 COND, TW	953-26	5M2619-26A4UN	4 COND, TW
653-26	ST5M1247-26A5UN	5 COND, TW	954-26	5M2619-26A5UN	5 COND, TW
656-22	ST5M1247-22-1SJ	1 COND, SH	931-22	5M2619-22-1SJ	1 COND, SH
657-22	ST5M1247-22-2SJ	2 COND, TW SH	932-22	5M2619-22-2SJ	2 COND, TW SH
663-22	ST5M1247-22A1SJ	1 COND, SH	944-22	5M2619-22A1SJ	1 COND, SH
707-22	M81381/13-22-55	22 GA	584-22	M22759/35-22-55	22 GA
762-22	ST5M1247-22B2UN	2 COND, TW	957-22	5M2619-22B2UN	2 COND, TW
763-22	ST5M1247-22B3UN	3 COND, TW	958-22	5M2619-22B3UN	3 COND, TW
798-16	ST5M1247F16-1SJ	1 COND, SH	931-16	5M2619-16-1SJ	1 COND, SH
798-20	ST5M1247F20-1SJ	1 COND, SH	931-20	5M2619-20-1SJ	1 COND, SH
798-22	ST5M1247F22-1SJ	1 COND, SH	931-22	5M2619-22-1SJ	1 COND, SH
799-16	ST5M1247F16-2SJ	2 COND, TW SH	932-16	5M2619-16-2SJ	2 COND, TW SH
799-20	ST5M1247F20-2SJ	2 COND, TW SH	932-20	5M2619-20-2SJ	2 COND, TW SH
799-22	ST5M1247F22-2SJ	2 COND, TW SH	932-22	5M2619-22-2SJ	2 COND, TW SH
800-16	ST5M1247F16-3SJ	3 COND, TW SH	933-16	5M2619-16-3SJ	3 COND, TW SH
800-22	ST5M1247F22-3SJ	3 COND, TW SH	933-22	5M2619-22-3SJ	3 COND, TW SH
802-22	ST5M1247F22-5SJ	5 COND, TW SH	935-22	5M2619-22-5SJ	5 COND, TW SH
803-22	ST5M1247F22-6SJ	6 COND, TW SH	936-22	5M2619-22-6SJ	6 COND, TW SH
805-22	ST5M1247F22A1SJ	1 COND, SH	944-22	5M2619-22A1SJ	1 COND, SH
805-26	ST5M1247F26A1SJ	1 COND, SH	944-26	5M2619-26A1SJ	1 COND, SH
806-22	ST5M1247F22A2SJ	2 COND, TW SH	945-22	5M2619-22A2SJ	2 COND, TW SH
806-26	ST5M1247F26A2SJ	2 COND, TW SH	945-26	5M2619-26A2SJ	2 COND, TW SH
807-22	ST5M1247F22A3SJ	3 COND, TW SH	946-22	5M2619-22A3SJ	3 COND, TW SH
807-26	ST5M1247F26A3SJ	3 COND, TW SH	946-26	5M2619-26A3SJ	3 COND, TW SH
808-26	ST5M1247F26A4SJ	4 COND, TW SH	947-26	5M2619-26A4SJ	4 COND, TW SH
809-26	ST5M1247F26A5SJ	5 COND, TW SH	948-26	5M2619-26A5SJ	5 COND, TW SH
810-26	ST5M1247F26A6SJ	6 COND, TW SH	949-26	5M2619-26A6SJ	6 COND, TW SH
811-26	ST5M1247F26A7SJ	6 COND, TW SH	950-26	5M2619-26A7SJ	7 COND, TW SH
852-12	M81381/11-12-47	12 GA	587-12	ST5M1298-T3U0	12 GA
852-16	M81381/11-16-67	16 GA	587-16	M22759/43-16-67	16 GA
852-20	M81381/11-20-27	20 GA	587-20	M22759/43-20-27	20 GA

Table 4. Cross Reference List Of Teflon Insulated To Crosslinked - Tefzel (XLETFE) Insulated Wire/Cable

TEFLON WIRE/CABLE			EQUIVALENT CROSSLINKED-TEFZEL (XLETFE) WIRE/CABLE		
WIRE TYPE	PART NUMBER	DESCRIPTION	WIRE TYPE	PART NUMBER	DESCRIPTION
<div style="border: 1px solid black; padding: 5px; text-align: center; margin: 10px auto; width: 150px;"> WARNING </div> <p>Avoid insulation temperatures above 230°C (446°F). Toxic hydrogen fluoride may be produced which is corrosive to eyes, skin, and respiratory tract. Provide local exhaust ventilation if heating is necessary. Waste should be landfilled to comply with federal, state, and local regulations. Refer to the appropriate Material Safety Data Sheet for further information.</p>					
677-12	M22759/11-12-4	12 GA	587-12	M22759/43-12-47	12 GA
677-16	M22759/11-16-6	16 GA	588-16	M22759/44-16-6	16 GA
677-20	M22759/11-20-2	20 GA	588-20	M22759/44-20-2	20 GA
677-22	M22759/11-22-5	22 GA	588-22	M22759/44-22-5	22 GA
678-12	M22759/7-12-4	12 GA	587-12	M22759/43-12-47	12 GA
678-16	M22759/7-16-6	16 GA	587-16	M22759/43-16-67	16 GA
678-20	M22759/7-20-2	20 GA	587-20	M22759/43-20-27	20 GA
678-22	M22759/7-22-5	22 GA	584-22	M22759/35-22-55	22 GA
683-12	ST5M1298-12S2UO	2 COND, TW	587-12	M22759/43-12-47	12 GA
684-16	ST5M1298-16S3UO	3 COND, TW	963-16	5M2619-16F3UN	3 COND, TW
703-20	ST5M1298-20S2S6	2 COND, SH	962-20	5M2619-20F2SJ	2 COND, SH
715-20	ST5M1298-20S1S6	1 COND, SH	961-20	5M2619-20F1SJ	1 COND, SH
726-16	ST5M1298-16R3UO	3 COND, TW	939-16	5M2619-16-3UN	3 COND, TW
726-20	ST5M1298-20R3UO	3 COND, TW	939-20	5M2619-20-3UN	3 COND, TW
726-22	ST5M1298-22R3UO	3 COND, TW	939-22	5M2619-22-3UN	3 COND, TW
733-20	ST5M1298-20R4UO	4 COND, TW	940-20	5M2619-20-4UN	4 COND, TW
733-22	ST5M1298-22R4UO	4 COND, TW	940-22	5M2619-22-4UN	4 COND, TW
740-16	ST5M1298-16R2UO	2 COND, TW	938-16	5M2619-16-2UN	2 COND, TW
740-20	ST5M1298-20R2UO	2 COND, TW	938-20	5M2619-20-2UN	2 COND, TW
740-22	ST5M1298-22R2UO	2 COND, TW	938-22	5M2619-22-2UN	2 COND, TW
741-20	ST5M1298-20R1S6	1 COND, SH	931-20	5M2619-20-1SJ	1 COND, SH
741-22	ST5M1298-22R1S6	1 COND, SH	931-22	5M2619-22-1SJ	1 COND, SH
761-26	M22759/22-26-0	26 GA	583-26	M22759/33-26-0	26 GA
793-22	ST5M1298-22R2S6	2 COND, TW SH	932-22	5M2619-22-2SJ	2 COND, TW SH
794-22	ST5M1298-22R3S6	3 COND, TW SH	933-22	5M2619-22-3SJ	3 COND, TW SH
814-22	ST5M1298F22R2S6	2 COND, TW SH	932-22	5M2619-22-2SJ	3 COND, TW SH
818-22	ST5M1298F22M2S6	2 COND, TW SH	945-22	5M2619-22A2SJ	2 COND, TW SH
818-26	ST5M1298F26M2S6	2 COND, TW SH	945-26	5M2619-26A2SJ	2 COND, TW SH
875-26	ST5M1298-26M2UO	2 COND, TW	951-26	5M2619-26A2UN	2 COND, TW

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****STRIPPING TOOLS**

Reference Material

None

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Record of Applicable Technical Directives

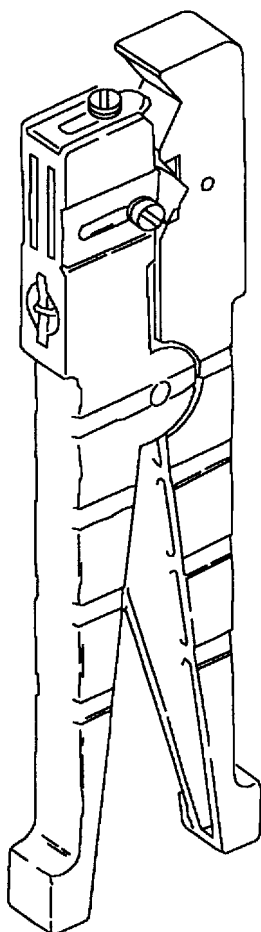
None

1. DESCRIPTION.

2. Before wire can be assembled to connectors, terminals, splices, etc., the insulation must be stripped from connecting ends to expose the bare conductor. To accomplish this task, hand stripper tools are used to remove the insulation. This work package contains a basic description on how to use the tool and a table of the strippers used to strip certain wire types.

3. There are three basic styles of strippers:

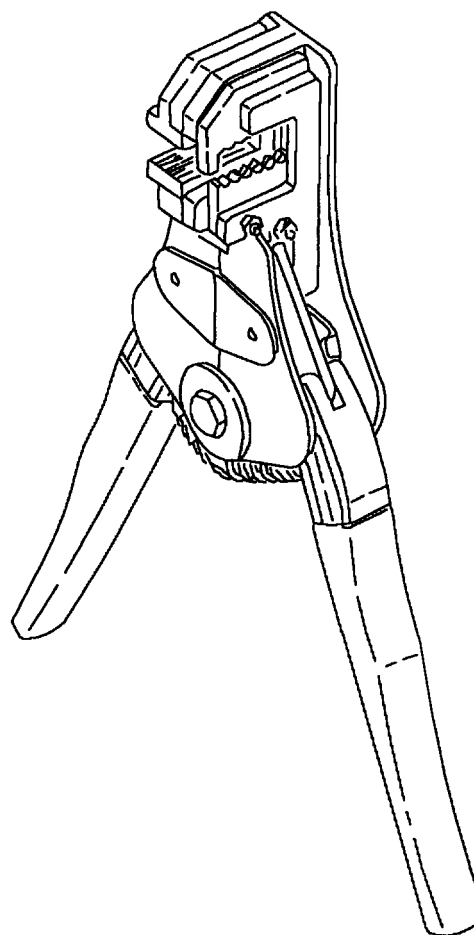
a. Coaxial cable stripper. See figure 1.



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Figure 1. Coaxial Cable Stripper

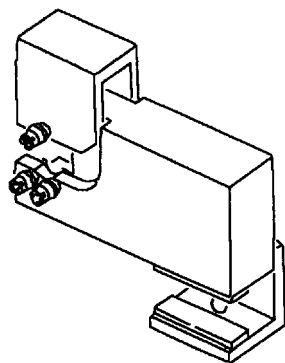
b. Basic wire strippers. See figure 2.



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Figure 2. Basic Wire Stripper

c. The R-720 REON stripper. See figure 3.



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Figure 3. R-720 Reon Stripper

4. Basic wire strippers have an assortment of cutting blades which fit the different sizes of wire. The coaxial stripper has two types of blades; a standard flat edge blade and a rounded blade used as an accessory for slitting cables. The REON stripper has a set of standard blades.

Support Equipment Required

Part Number or Type Designation	Nomenclature
See Table 1	Wire Stripper(s)

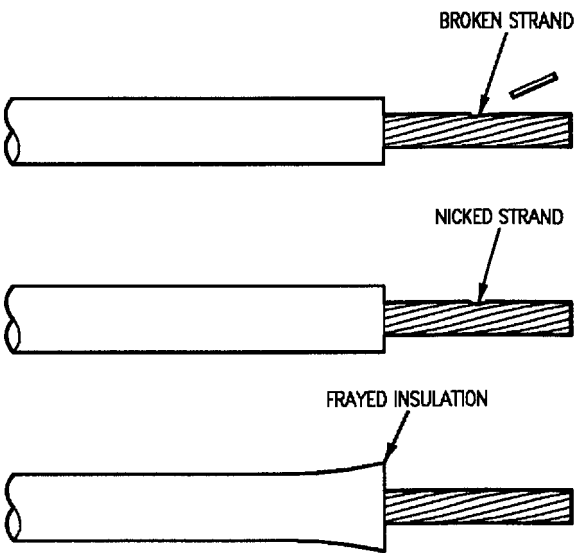
Materials Required

None

5. GENERAL STRIPPING INSTRUCTIONS.

6. Observe the following precautions when using wire strippers.

- a. Make sure all stripping blades are sharp and free from nicks, dents, etc.
- b. When using any type of wire stripper, hold wire perpendicular to cutting blades.
- c. Make sure insulation is clean-cut with no frayed or ragged edges. Trim if necessary.
- d. Make sure all insulation is removed from stripped area. Some types of wires are supplied with a transparent layer between conductor and primary insulation. If this is found, remove it.
- e. When it is necessary to remove lengths of insulation longer than 3/4-inch, it is easier to do it in two or more operations.
- f. Retwist copper strands by hand to restore natural lay and tightness of strands.
- g. Conditions shown in figure 4 are unacceptable.



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Figure 4. Unacceptable Conditions

7. COAXIAL CABLE STRIPPER ADJUSTMENT AND USE.

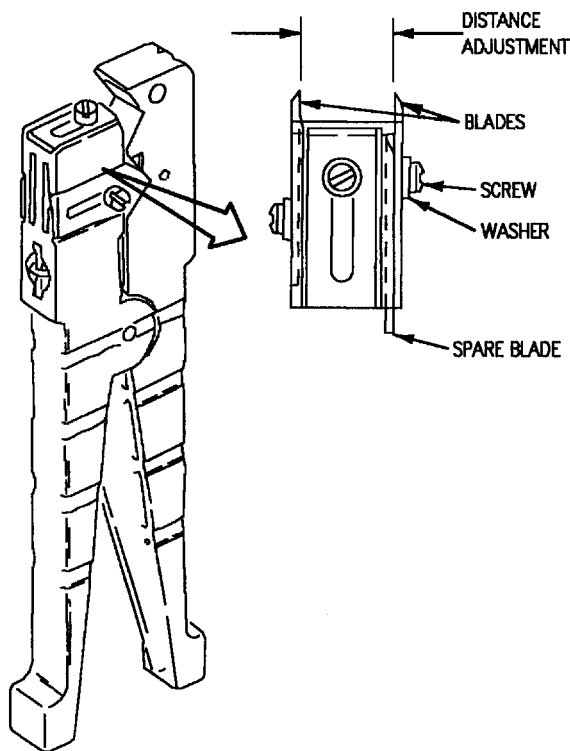
8. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 5.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- Install screws and tighten handtight.
- Adjust depth of cut.



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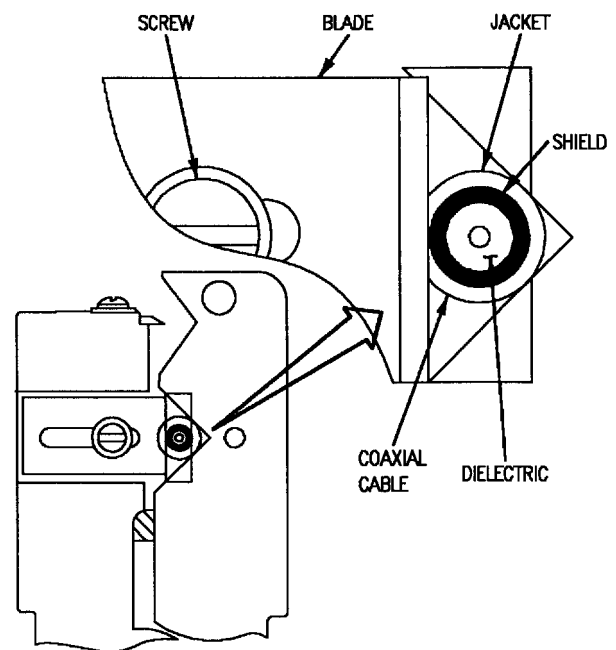
Figure 5. Distance Adjustment

9. DEPTH ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 6.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



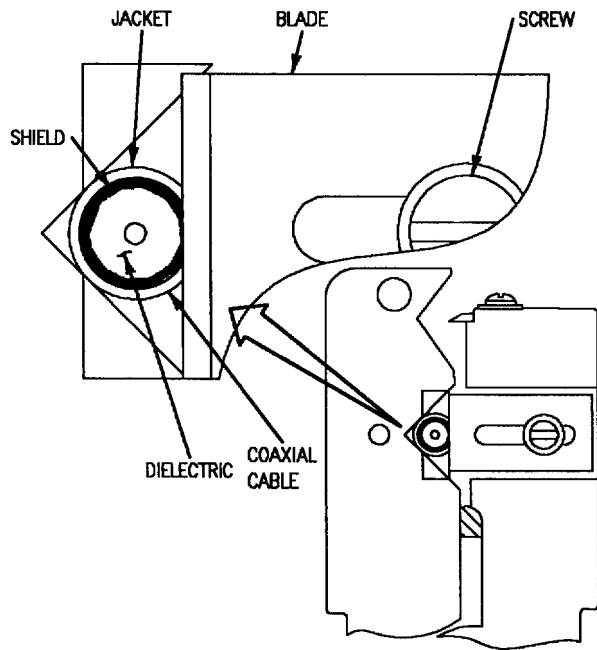
F/A-18-WRM-(409-3)01-CATI

Figure 6. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 7.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 9a through 9d until blades cut through jacket and shield without damaging shield and dielectric.



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Figure 7. Shield Cut Adjustment**10. USE.**

a. Position stripper on cable so that blades face down. See figure 8.

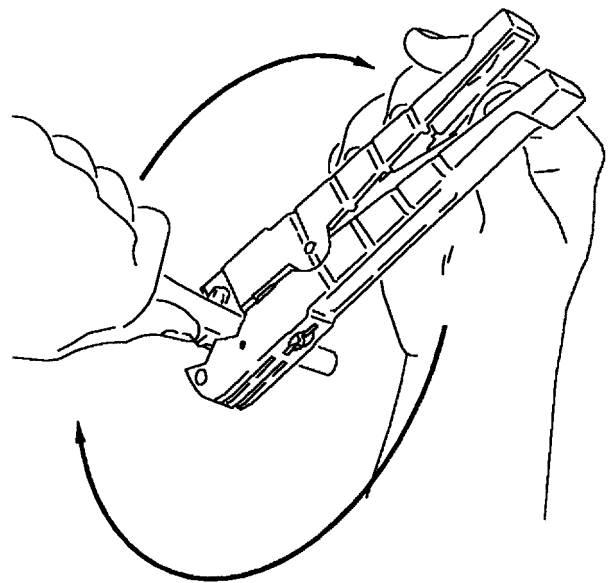
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.

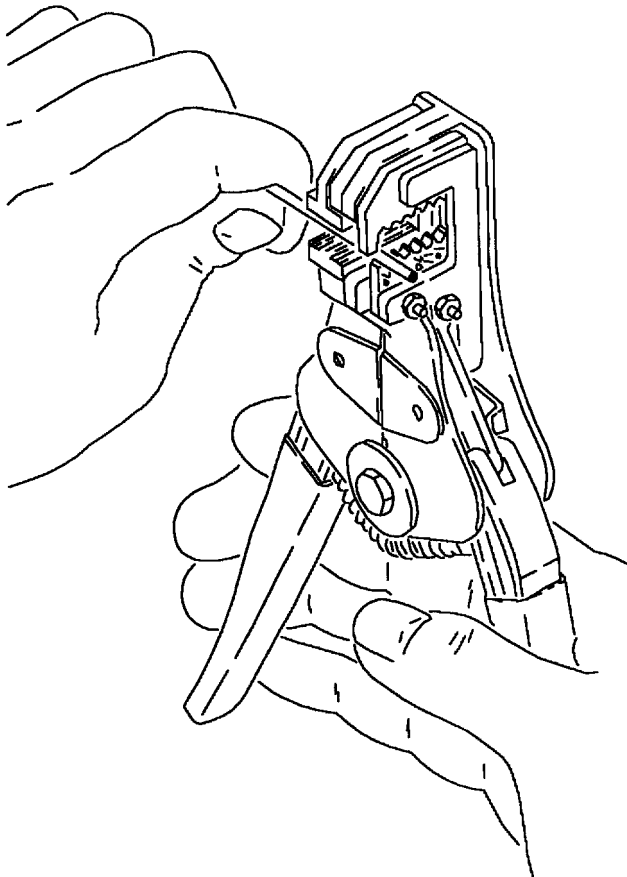


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Figure 8. Operation

11. BASIC WIRE STRIPPER USE.

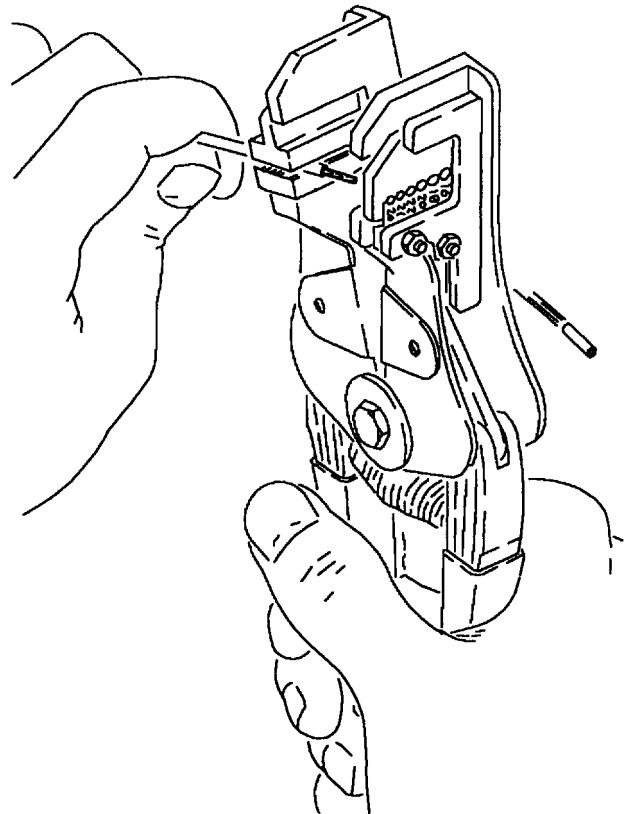
a. Insert wire into exact center of correct cutting slot for wire size to be stripped (each slot is marked with wire size). See figure 9.



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Figure 9. Placing Wire in Slot of Stripping Tool

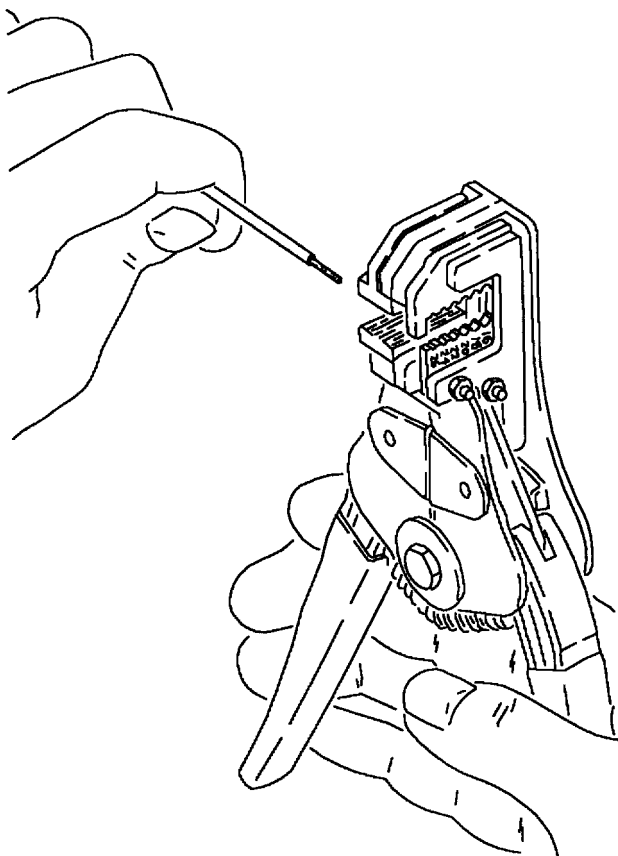
b. Close handles together as far as they will go. See figure 10.



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Figure 10. Removing Insulation

c. Remove wire while releasing handles, allowing wire holder to return to open position. See figure 11.

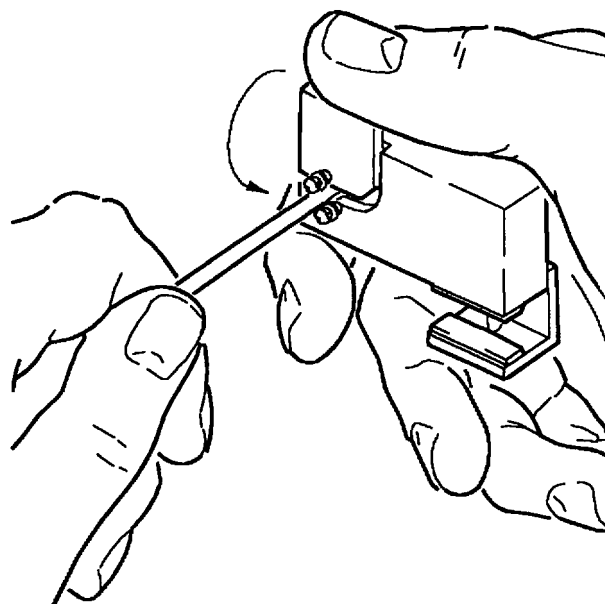


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Figure 11. Stripping Completed

12. R-720 REON STRIPPER USE.

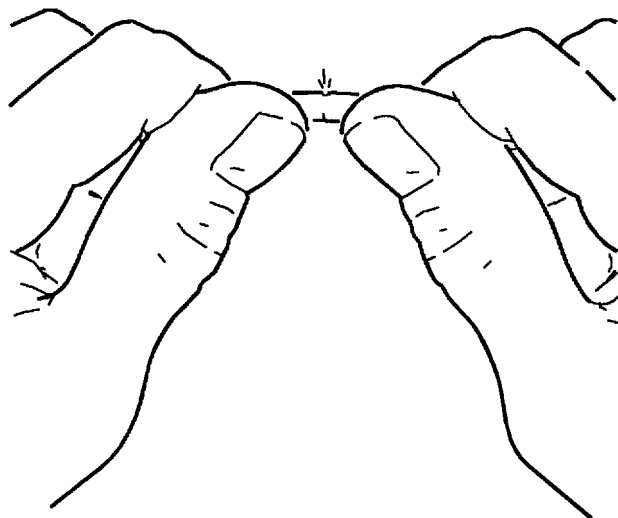
- Place R-720 stripping tool on wire at desired
- Rotate tool one-half turn (180°). See figure 12.



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Figure 12. Rotating R-720 Reon Stripper

c. Flex wire to complete jacket separation. See figure 13.



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Figure 13. Completing Jacket Separation

Table 1. Stripping Tool Versus Wire Type

STRIPPING TOOL	WIRE TYPE	PART NUMBER	WIRE DESCRIPTION
R-720	798 799 800 801 805 806 807 808 809 810 811		Cable Jacket Only
45-130	678 (8 Gage)	M22759/7-8-2	Single Conductor, Stranded Silver Coated Copper
	726 (8 Gage)	M27500-8RC3U00	3 Conductor, Stranded Silver Coated Twisted
	726 (8 Gage)	M27500-8RC4U00	4 Conductor, Stranded Silver Coated Twisted
	813		Cable Jacket Only
	814		Cable Jacket Only
	824		Cable Jacket Only
45-1500	678 (10 Gage) (12 Gage) (14 Gage)	M22759/7-10-1 M22759/7-12-4 M22759/7-14-5	Single Conductor, Stranded Silver Coated Copper
45-1501	678 (16 Gage) (20 Gage) (18 Gage) (22 Gage)	M22759/7-16-6 M22759/7-18-9 M22759/7-20-2 M22759/7-22-5	Single Conductor, Stranded Silver Coated Copper
45-1610	677 (12 Gage) (16 Gage) (20 Gage) (22 Gage)	M22759/11-12-4 M22759/11-16-6 M22759/11-20-2 M22759/11-22-5	Single Conductor, Stranded Silver Coated Copper
	726 (16 Gage) (18 Gage) (20 Gage) (22 Gage)	M27500-16RC3U00 M27500-18RC3U00 M27500-20RC3U00 M27500-22RC3U00	3 Conductor, Stranded Silver Coated Twisted
	761 (24 Gage)	M22759/22-24-6	Single Conductor, Stranded Silver Coated High Strength Copper Alloy

Table 1. Stripping Tool Versus Wire Type (Continued)

STRIPPING TOOL	WIRE TYPE	PART NUMBER	WIRE DESCRIPTION
45-1611	726 (10 Gage) (12 Gage) (14 Gage)	M27500-10RC4U00 M27500-12RC4U00 M27500-14RC4U00	3 Conductor, Stranded Silver Coated Twisted
45-163	716	AA2270	Coaxial Cable, Twin Cond. (98 OHM)
45-163 OR 45-165	689	RG-400/U	Coaxial Cable (50 OHM)
	822	AA4056	Coaxial Cable
45-164	339	M17/174-00001	Coaxial Cable
45-165	706	AA2325 26895-15X1	Triaxial Cable (95 OHM)
45-1633	640 (16 Gage) (18 Gage) (20 Gage) (22 Gage)	M81381/7-16-6 M81381/7-18-9 M81381/7-20-2 M81381/7-22-5	Single Conductor, Stranded Silver Coated Copper
	641 (22 Gage) (24 Gage) (26 Gage)	M81381/9-22-59 M81381/9-24-6 M81381/9-26-0	Single Conductor, Stranded Silver Coated High
	644 (16 Gage) (18 Gage) (20 Gage) (22 Gage)	M27500-16MR2U11 M27500-18MR2U11 M27500-20MR2U11 M27500-22MR2U11	2 Conductor, Stranded Copper, Twisted
	645 (16 Gage) (18 Gage) (20 Gage) (22 Gage)	M27500-16MR3U11 M27500-18MR3U11 M27500-20MR3U11 M27500-22MR3U11	3 Conductor, Stranded Copper, Twisted
	646 (16 Gage) (18 Gage) (20 Gage) (22 Gage)	M27500-16MR4U11 M27500-18MR4U11 M27500-20MR4U11 M27500-22MR4U11	4 Conductor, Standard Copper, Twisted
	647 (16 Gage) (20 Gage) (22 Gage)	M27500-16MR5U11 M27500-20MR5U11 M27500-22MR5U11	5 Conductor, Stranded Copper, Twisted
	650 (22 Gage) (24 Gage)	M27500-22A2UN M27500-24A2UN	2 Conductor, Stranded Copper Alloy, Twisted

Table 1. Stripping Tool Versus Wire Type (Continued)

STRIPPING TOOL	WIRE TYPE	PART NUMBER	WIRE DESCRIPTION
45-1633 (Cont.)	651 (22 Gage) (24 Gage)	M27500-22MT2U11 M27500-24MT2U11	3 Conductor, Stranded Copper Alloy, Twisted
	652 (22 Gage) (24 Gage)	M27500-22MT4U11 M27500-24MT4U11	4 Conductor, Stranded Copper Alloy, Twisted
	653 (22 Gage) (24 Gage)	M27500-22MT5U11 M27500-24MT5U11	5 Conductor, Stranded Copper Alloy, Twisted
	654 (22 Gage) (24 Gage)	M27500-22MT6U11 M27500-24MT6U11	6 Conductor, Stranded Copper Alloy, Twisted
	655 (22 Gage) (24 Gage)	M27500-22MT7U11 M27500-24MT7U11	7 Conductor, Stranded Copper Alloy, Twisted
	656 (16 Gage) (20 Gage) (22 Gage)	M27500-16MR2511 M27500-20MR2511 M27500-22MR2511	Single Conductor, Stranded Copper, Twisted Silver Coated Copper Shield, Kapton-2 Jacket
	657 (16 Gage) (20 Gage) (22 Gage)	M27500-16MR2511 M27500-20MR2511 M27500-22MR2511	2 Conductor, Stranded Copper, Twisted Silver Coated Copper Shield, Kapton-2 Jacket
	798 (16 Gage) (20 Gage) (22 Gage) (24 Gage)	M27500-16MR1G11 M27500-20MR1G11 M27500-22MR1G11 M27500-24MR1G11	Single Conductor, Shielded
	799 (16 Gage) (20 Gage) (22 Gage) (24 Gage)	M27500-16MR2G11 M27500-20MR2G11 M27500-22MR2G11 M27500-24MR2G11	2 Conductor, Twisted, Shielded
	800 (16 Gage) (20 Gage) (22 Gage) (24 Gage)	M27500-16MR3G11 M27500-20MR3G11 M27500-22MR3G11 M27500-24MR3G11	3 Conductor, Twisted, Shielded
	802 (16 Gage) (20 Gage) (22 Gage)	M27500-16MR5G11 M27500-20MR5G11 M27500-22MR5G11	5 Conductor, Twisted, Shielded
	803 (16 Gage) (20 Gage) (22 Gage) (24 Gage)	M27500-16MR6G11 M27500-20MR6G11 M27500-22MR6G11 M27500-24MR6G11	6 Conductor, Twisted Shielded
	805 (22 Gage) (24 Gage)	M27500-22MT1G11 M27500-24MT1G11	Single Conductor, Stranded Copper Alloy, Shielded

Table 1. Stripping Tool Versus Wire Type (Continued)

STRIPPING TOOL	WIRE TYPE	PART NUMBER	WIRE DESCRIPTION
45-1633 (Cont)	806 (22 Gage) (24 Gage)	M27500-22MT2G11 M27500-24MT2G11	2 Conductor, Stranded Copper Alloy, Twisted Shielded
	807 (22 Gage) (24 Gage)	M27500-22MT3G11 M27500-24MT3G11	3 Conductor, Stranded Copper Alloy, Twisted Shielded
	808 (22 Gage) (24 Gage)	M27500-22MT4G11 M27500-24MT4G11	4 Conductor, Stranded Copper Alloy, Shielded
	809 (22 Gage) (24 Gage)	M27500-22MT5G11 M27500-24MT5G11	5 Conductor, Stranded Copper Alloy, Shielded
	811 (22 Gage) (24 Gage)	M27500-22MT7G11 M27500-24MT7G11	7 Conductor, Stranded Copper Alloy, Shielded
45-1654	707 (22 Gage)	M81381/13-22-55	Single Conductor, Stranded Silver-Coated High Strength Copper Alloy, Green/Green Strip
45-177	813 (8 Gage) (10 Gage) (12 Gage) (16 Gage) (20 Gage) (22 Gage)	M27500-8RC1G06 M27500-10RC1G06 M27500-12RC1G06 M27500-16RC1G06 M27500-20RC1G06 M27500-22RC1G06	Single Conductor, Shielded, Jacketed
	814 (8 Gage) (10 Gage) (12 Gage) (16 Gage) (20 Gage) (22 Gage)	M27500-8RC2G06 M27500-10RC2G06 M27500-12RC2G06 M27500-16RC2G06 M27500-20RC2G06 M27500-22RC2G06	2 Conductor, Stranded Silver Coated Copper, Twisted, Shielded
	824 (24 Gage)	ST5M1212-003	2 Conductor, Silver Plated Copper Alloy, Twisted, Shielded

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

SOLDERING TOOLS - PROCEDURES

Reference Material

None

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Record of Applicable Technical Directives

None

1. DESCRIPTION.

2. Solder connections are used in aircraft electrical wiring to form a permanent bond between relays, electrical connectors, etc. to electrical wire. For a good solder joint, all surfaces to be soldered must be clean. For maximum heat transfer from soldering iron to sur-

face to be soldered, tip of soldering iron must be clean, smooth, and tinned with a thin coat of solder. Excessive solder will splash on nearby components. Use a damp, lint free cloth to remove excess solder from soldering iron tip.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

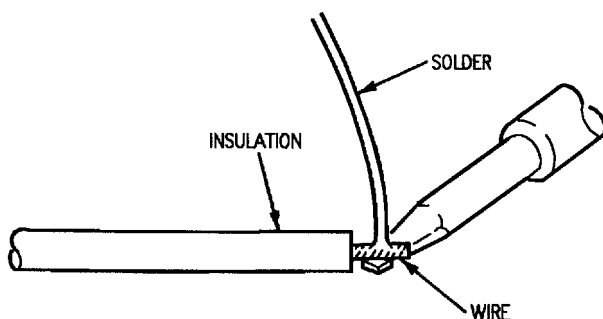
Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder
MMS409	Cleaning Compound
H-B-643, TYPE 2, CLASS 1	Brush, Acid, Swabbing
CCC-C-440 TYPE 1, CLASS 1	Cheesecloth, Commercial

3. SOLDER PROCEDURE USING W60-3 SOLDERING IRON.

4. TINNING ELECTRICAL WIRES.

- Clean and tin soldering iron tip.
- Make sure individual strands have not been disturbed during wire stripping process.
- Apply heat and solder to wire at the same time. Remove heat immediately when solder flows into the strands of wire. Apply only enough solder to join wires together. Make sure individual strands of wire are coated with solder and normal lay of individual strands are visible. See figure 1.

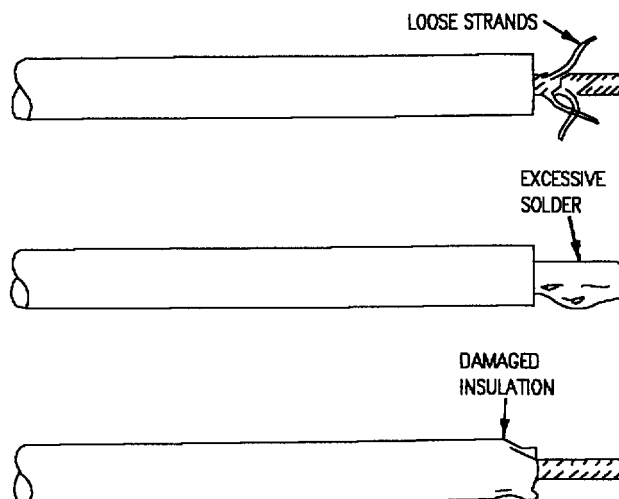


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Figure 1. Tinning Electrical Wire

d. The conditions shown in figure 2 are unacceptable.

- (1) Loose strands.
- (2) Excessive solder.
- (3) Damaged insulation.



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Figure 2. Unacceptable Conditions After Tinning

5. SOLDERING ELECTRICAL WIRE IN CONNECTOR SOLDER CAP.

- Clean and tin soldering iron tip.

WARNING

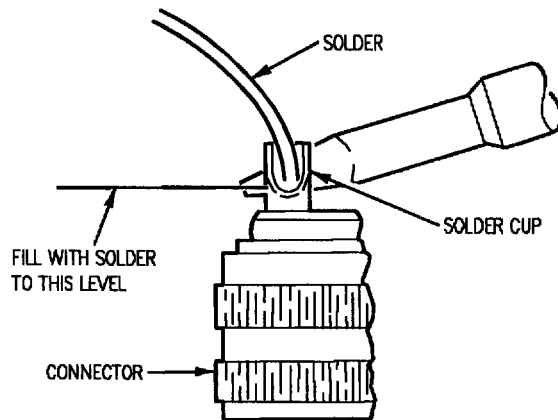
Cleaning Compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- Clean solder cup, using cleaning compound and acid brush. Wipe away excess compound with cheesecloth.

- Place solder in solder cup.

- Place soldering iron tip on back side of solder cup and heat solder cup enough to melt

solder and fill solder cup. Do not allow solder cup to overflow and flow outside solder cup. See figure 3.



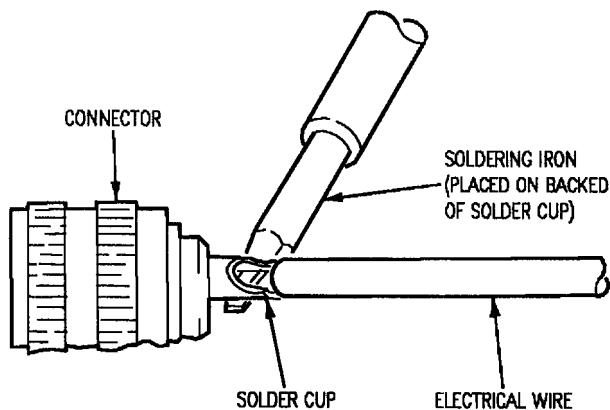
F/A-18-WRM-(414-1)01-SCAN

Figure 3. Filling Solder Cup

e. Place tinned wire in solder cup and apply heat to back of solder cup until solder in solder cup starts to flow.

f Gently push wire into solder cup until it reaches bottom.

g. Withdraw heat immediately and hold wire in position until solder hardens. See figure 4.



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Figure 4. Soldering Electric Wire in Connector Solder Cup

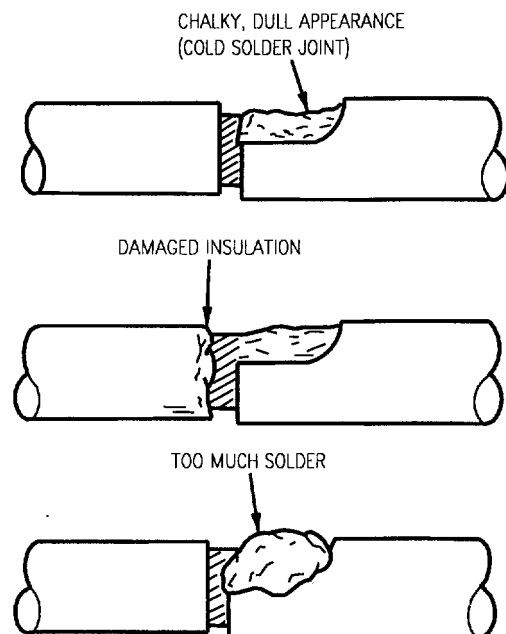
WARNING

Cleaning Compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

h. Clean excess rosin and residue from solder cup using an acid brush and cleaning compound. Wipe away excess cleaning compound with clean cheese-cloth.

i. Inspect solder joint. Acceptable solder joint is smooth, shiny, free of cracks, and wire strand contour is visible. The conditions shown in figure 5 are unacceptable.

- (1) Chalky, dull appearance (cold solder
- (2) Damaged insulation.
- (3) Too much solder.



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Figure 5. Unacceptable Conditions After Soldering Contact

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****CRIMPING TOOLS**

Reference Material

None

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Record of Applicable Technical Directives

None

1. DESCRIPTION.

a. The crimp tools described crimp contacts, end caps, splices, or terminal lugs. These tools crimp the barrel to the conductor, and some simultaneously form the insulation support to the wire insulation.

b. There are five types of crimp tools described in this work package. They are M22520/1-01, M22520/2-01, M22520/5-01, GMT232 and H20 crimp tools.

Support Equipment Required

Part number	
Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector

Materials Required

None

2. CRIMP TOOL HANDLE M22520/1-01
GENERAL DESCRIPTION.

a. This tool crimps contacts with wire barrel sizes 12 through 20 and selects the correct depth of crimp depending on the contact/wire combination being used. The tool is cycle controlled and will not release until the crimping cycle has been completed. The contact is crimped by the closure of four indentors. Applicable turret or universal positioner heads are installed depending on the application.

3. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

- a. Select turret head or universal position head needed for applicable connector.

NOTE

Tool handle shall be fully open when inserting turret or positioner head and when changing selector positions.

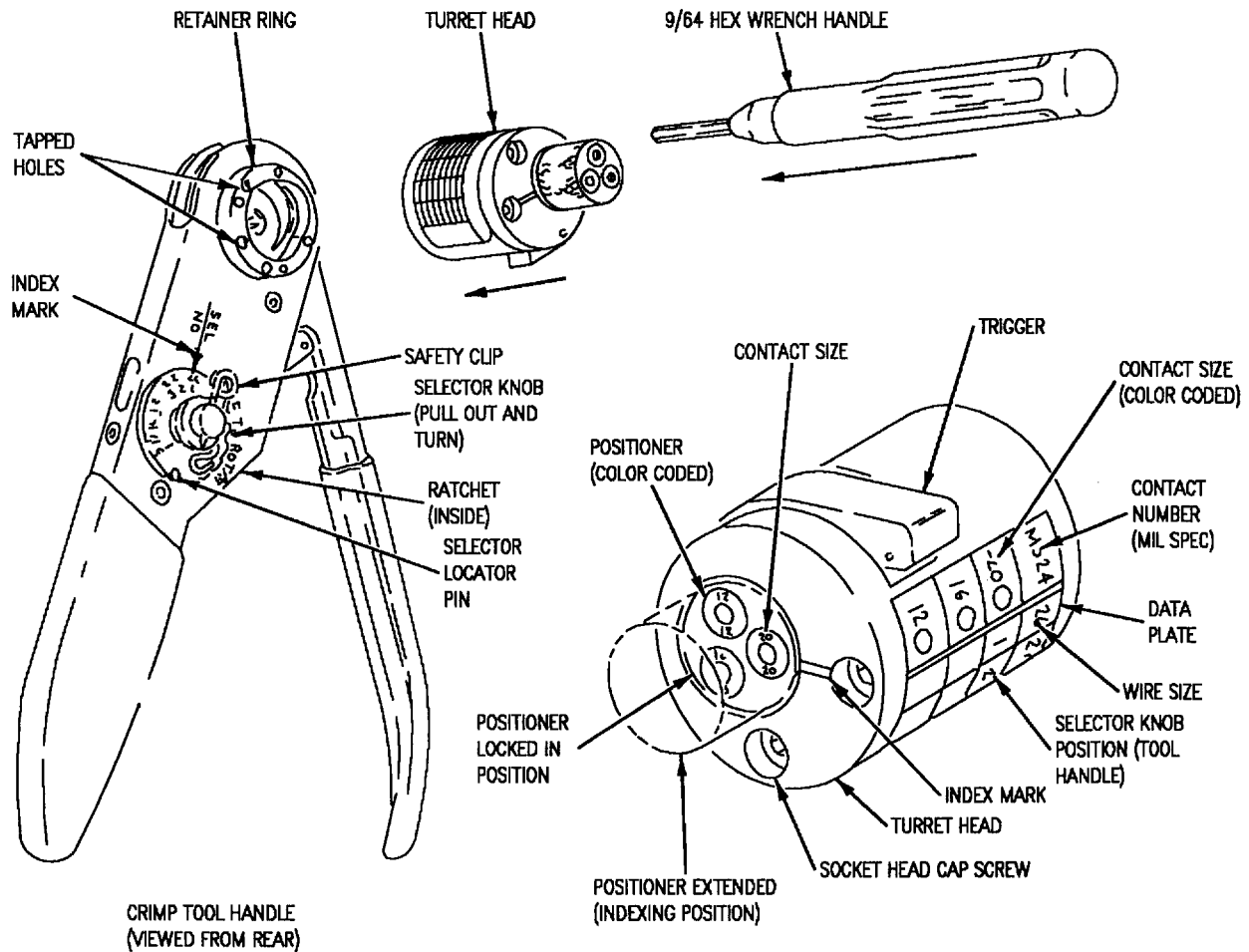
4. REMOVAL AND INSTALLATION OF TURRET HEAD.

- a. Press trigger on turret head releasing positioner to extended (indexing) position. See figure 1.

- b. Seat turret head onto retainer ring on back of tool with screws lined up with tapped holes.

- c. Tighten socket head screws with a 9/64-inch allen wrench.

- d. To remove, loosen socket head screw until threads are disengaged from tapped holes, open handles completely and lift off crimp tool



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Figure 1. M22520/1-01 Crimp Tool Handle and Turret Head

5. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- Press trigger on turret head releasing positioner to extended (indexing) position.
- Select positioner desired from color coded data plate on side of turret head assembly.
- Rotate positioners until color coded positioner is lined up with index mark.
- Press positioner into turret head until it snaps into locked position.

6. SETTING SELECTOR KNOB USING TURRET HEAD.

- Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- Remove the safety clip lock from selector knob.
- Raise selector knob and rotate to selector number found on data plate.
- Replace safety clip.

7. CRIMP TOOL HANDLE M22520/2-01 GENERAL DESCRIPTION.

a. This tool crimps contacts with wire barrel sizes 20 through 28, and selects the correct depth of crimp depending on the contact/wire combination being used. The tool is cycle controlled and will not release until the crimping cycle has been completed. The contact is crimped by the closure of the four indentors. Applicable positioners are installed depending on the application.

8. CRIMP TOOL HANDLE M22520/2-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

a. Select positioner needed for applicable connector.

NOTE

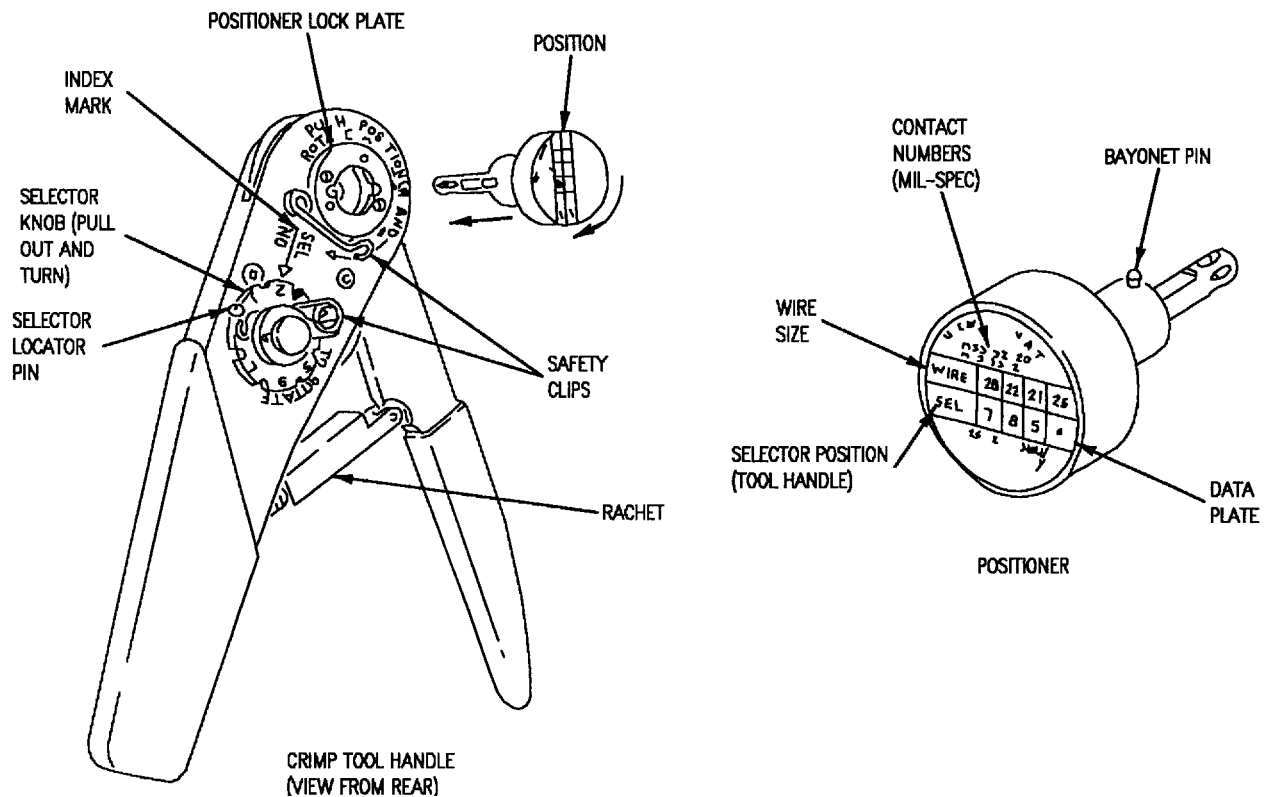
Tool handle shall be fully open when inserting positioner and when changing selector positions.

9. REMOVAL AND INSTALLATION OF POSITIONER.

a. Align bayonet pins on positioner with keyway on positioner lock plate. See figure 2.

b. Push positioner into lock plate until it bottoms, maintain pressure and turn clockwise until it stops. Insert safety clip.

c. To remove, pull safety clip out. Turn positioner counterclockwise until it stops and lift straight up out of lock plate.



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Figure 2. M22520/2-01 Crimp Tool Handle and Positioner

10. **SETTING SELECTOR KNOB.**

a. Locate wire size on data plate of positioner and note corresponding selector number.

b. Remove safety clip. Lift selector knob and rotate until selector number found on data plate aligns with index.

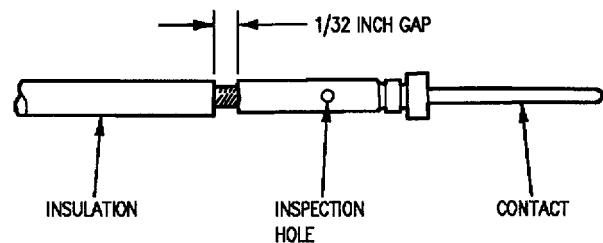
c. Install safety clip.

11. **CONTACT CRIMPING.**

a. Select correct contact for affected connector.

b. Insert stripped wire into contact and make sure wire strands are visible in contact inspection hole.

c. Inspect gap dimension between contact and insulation, if applicable. See figure 3.



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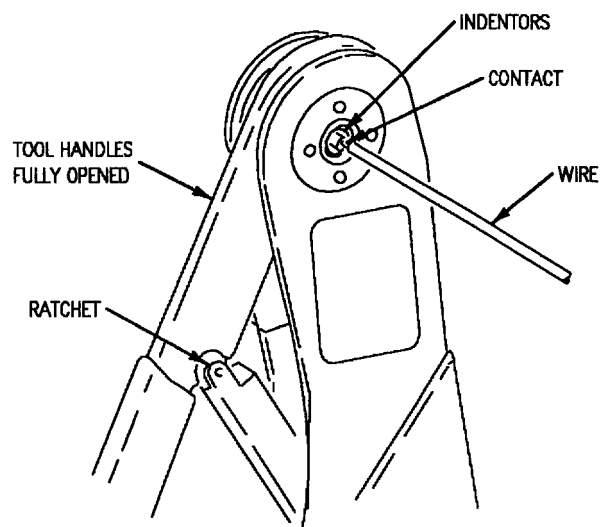
Figure 3. Strip Gap Check

d. Insert contact and wire into crimp tool indentors on front of tool until contact bottoms in positioner/turret. See figure 4, detail A.

NOTE

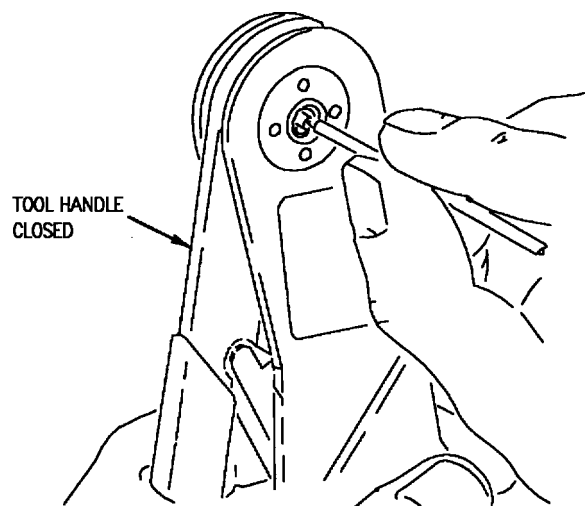
Crimp tool will not release until crimping cycle is completed.

e. Hold wire in place and squeeze tool handles together smoothly until ratchet releases and tool opens. See figure 4, detail B.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A



DETAIL B

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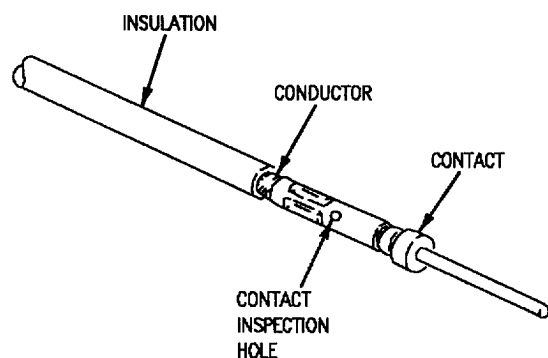
Figure 4. Contact Crimping

f. Remove crimped contact from tool and inspect wire strands in contact inspection hole. See figure 5.

(1) Two series of four indents shall grip wire and secure contact to wire.

(2) Wire shall be visible in contact inspection hole, indicating that wire is crimped into contact at correct depth.

(3) There shall be no loose or nicked strands.

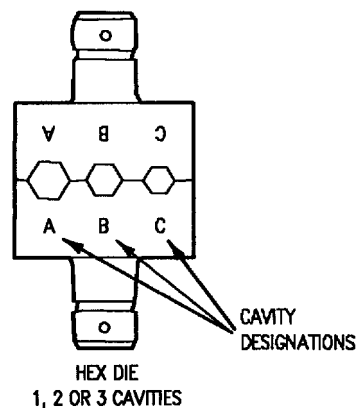


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Figure 5. Inspection of Crimped Contact

12. CRIMP TOOL HANDLE M22520/5-01 GENERAL DESCRIPTION.

a. This tool crimps ferrules on coax, triax and shielded wires. The tool has a self-locking ratchet which prevents opening until crimp is complete. This mechanism must never be disassembled since it insures correct crimping closure. The crimp tool has removable dies. See figure 6.



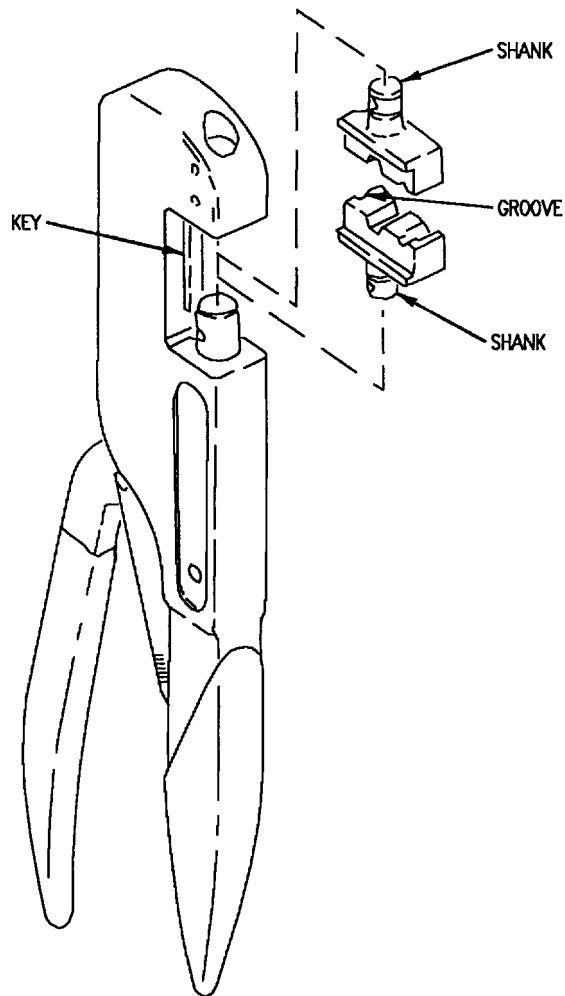
F/A-18-WRM-(417-1)01-SCAN

Figure 6. Die Types

13. CRIMP TOOL HANDLE M22520/5-01 ASSEMBLY AND USE.**14. DIE INSTALLATION.**

a. Align groove in die with key in crimping tool and push shank of die into hole.

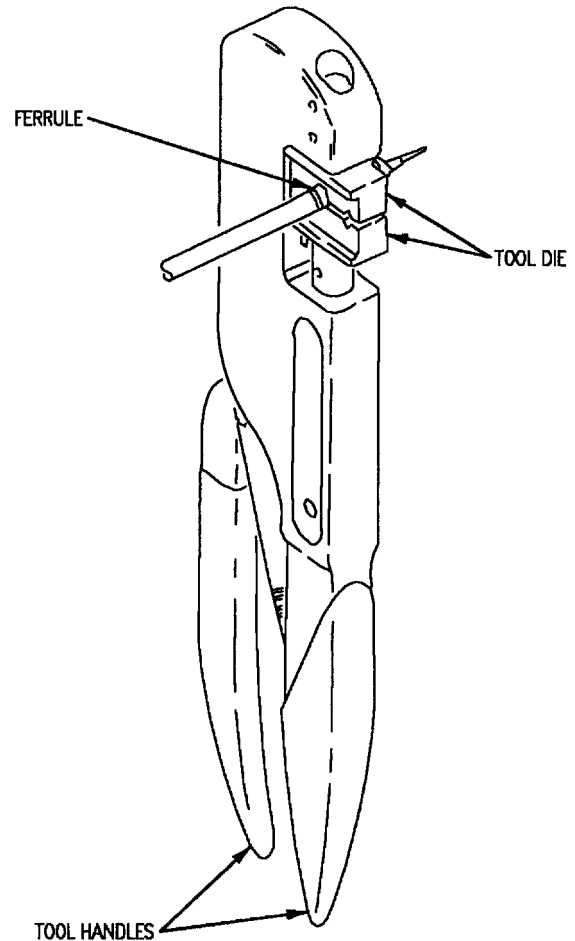
b. Close handle to make sure dies are correctly seated and locked in place. See figure 7.



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Figure 7. Die Installation**15. CRIMPING PROCEDURE.**

a. Position ferrule and wire assembly in correct cavities of dies. See figure 8.



F/A-18-WRM-(410-1)01-SCAN

Figure 8. Crimp Positioning

b. Squeeze tool handles until ratchet releases.

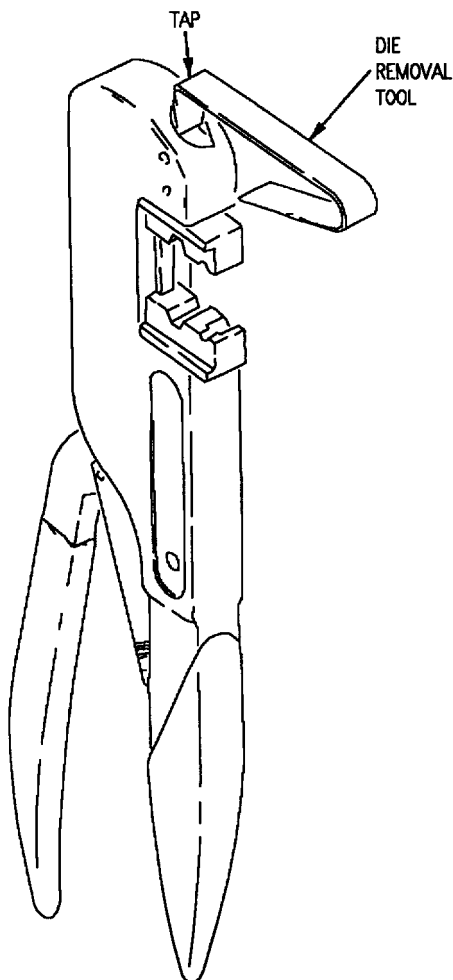
c. Open handles and remove ferrule and wire assembly and inspect for correct crimp.

16. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inch may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 9.

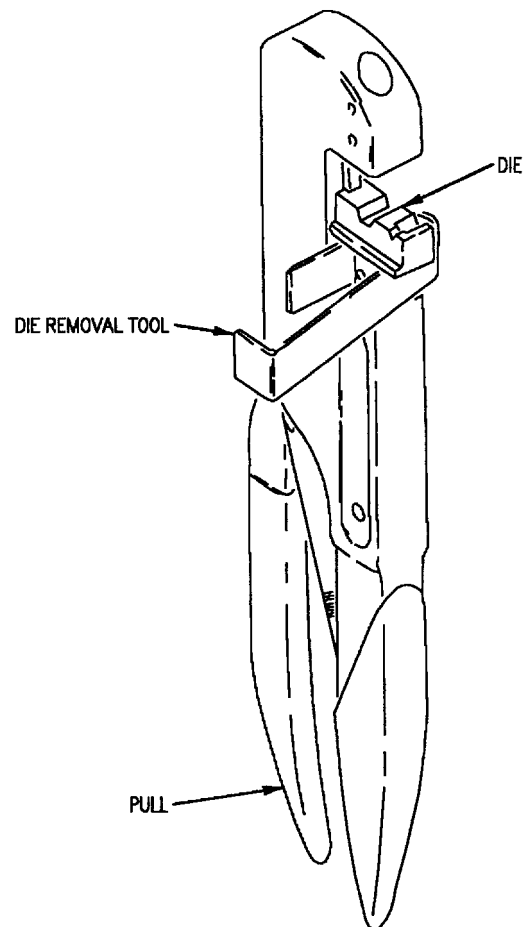


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Figure 9. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 10.



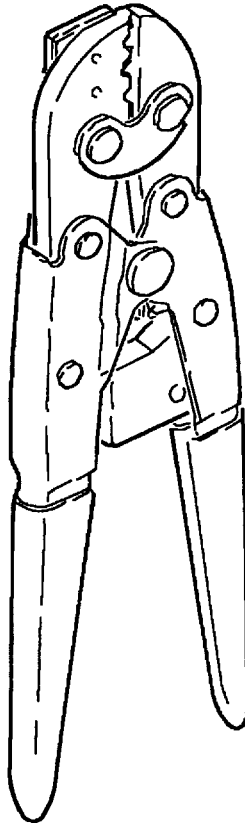
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Figure 10. Lower Die Removal

d. Pull handle open with snap action. The die will be released from the lock spring and can then be removed by hand.

**17. CRIMP TOOL HANDLE GMT232
GENERAL DESCRIPTION.**

a. This tool crimps splice barrels. The tool has three sizes of crimp cavities. There are no removable parts. See figure 11.



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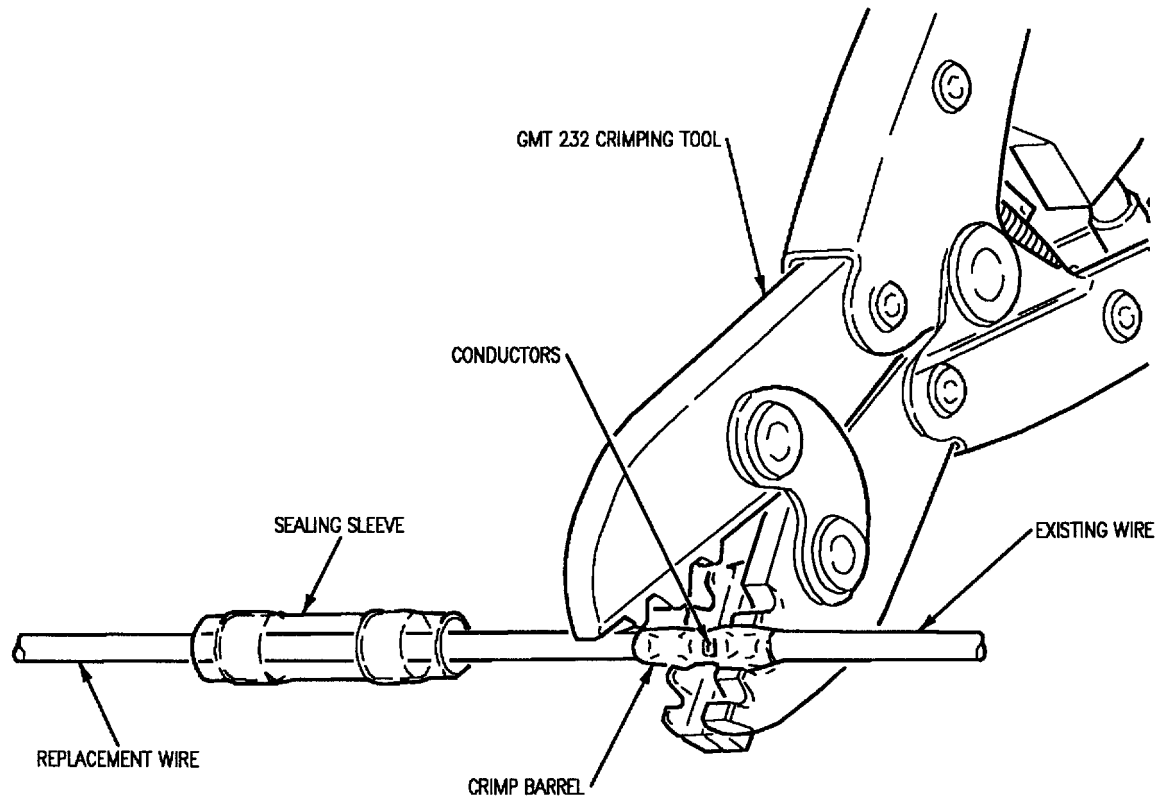
Figure 11. GMT232 Crimp Tool

**18. CRIMP TOOL HANDLE GMT232
USE.**

- a. Select correct splice barrel needed for application.
- b. Insert stripped wires into splice to be either stub splice or a lap splice.

c. Center splice in crimping tool and crimp in place.

d. Make sure wires are secured in splice.
See figure 12.

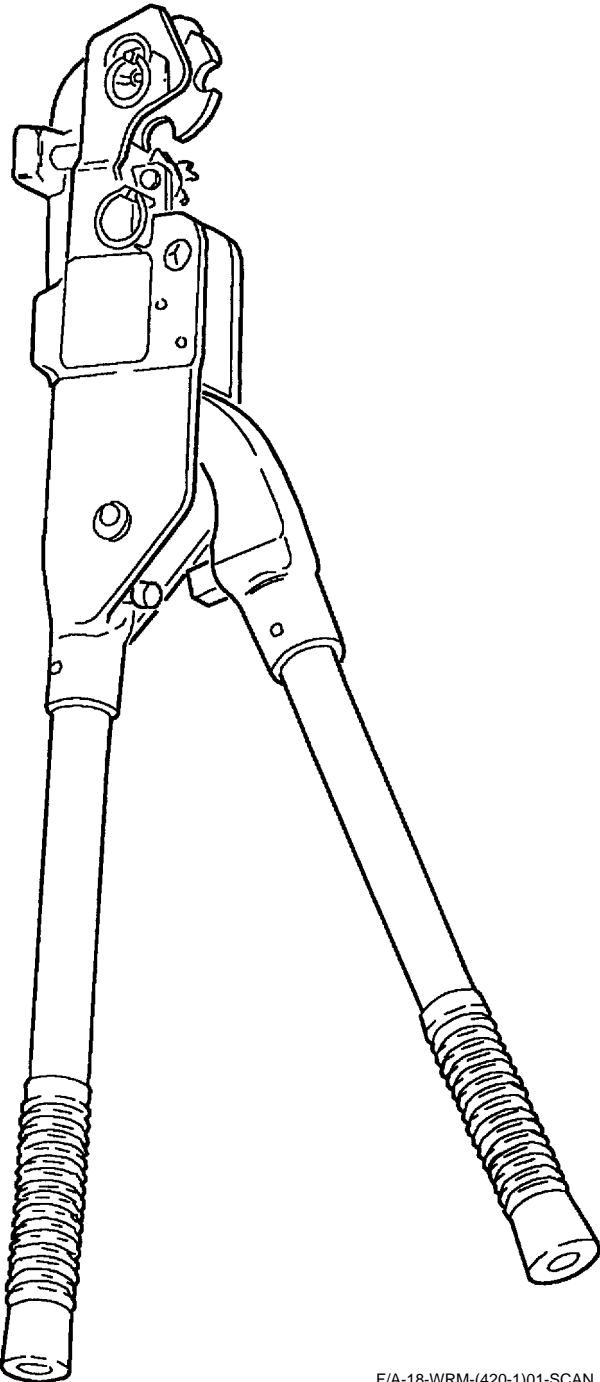


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Figure 12. Crimp Tool Handle GMT232 Assembly and Use

19. CRIMP TOOL H20 GENERAL DESCRIPTION.

a. This tool installs insulated or non-insulated terminals. It crimps terminals on 8 through 2 gage wire. See figure 13.



F/A-18-WRM-(420-1)01-SCAN

Figure 13. H20 Crimp Tool

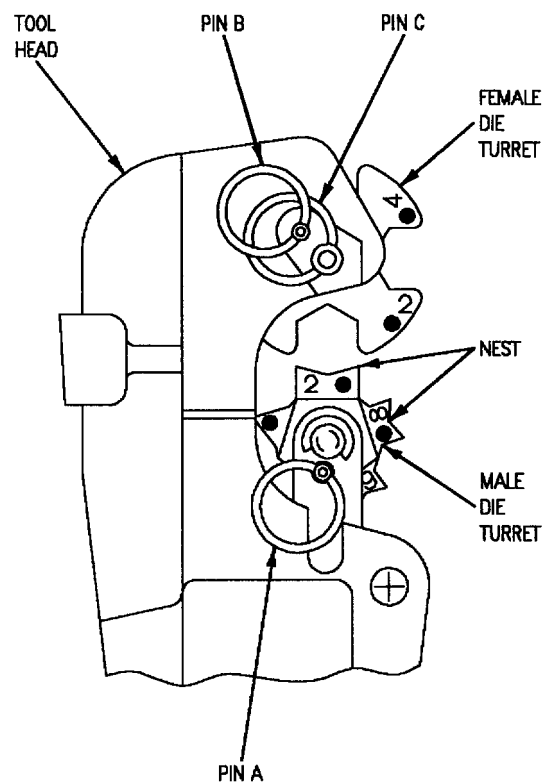
20. CRIMP TOOL H20 ASSEMBLY AND USE.

NOTE

Refer to paragraph 21 for insulated terminals or paragraph 24 for non-insulated terminals.

21. CRIMP TOOL ARRANGEMENT FOR INSULATED TERMINALS.

a. Remove pin A and rotate male die turret until required size nest is in up position. See figure 14.



F/A-18-WRM-00-(32-1)01-CATI

Figure 14. Die Turret Adjustment

b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.

CAUTION

To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

d. Slide female die turret (H20F) into tool head with wire size and color code on same side as the markings on the male die turret.

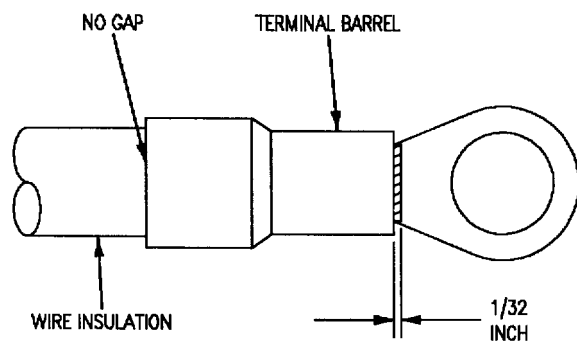
e. Install pin C to hold female die turret in position.

f. Rotate female die turret until wire size and color code match those set in male die turret.

g. Install pin B through ring of pin C to lock the female die turret in position.

22. CRIMPING PROCEDURE - INSULATED TERMINALS.

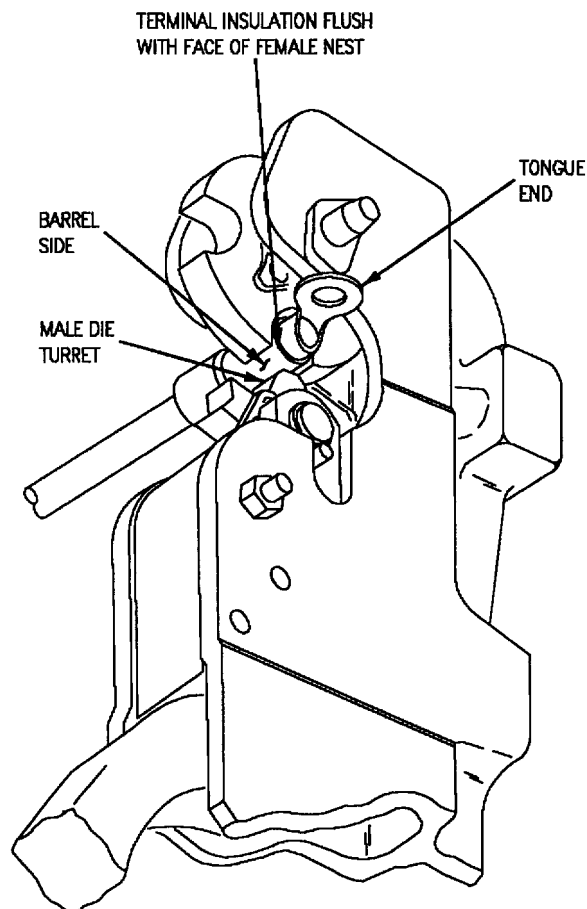
a. Insert stripped wire into terminal until wire insulation butts flush inside terminal barrel. See figure 15.



F/A-18-WRM-(38-1)01-CATI

Figure 15. Insulated Terminal Wire Installation

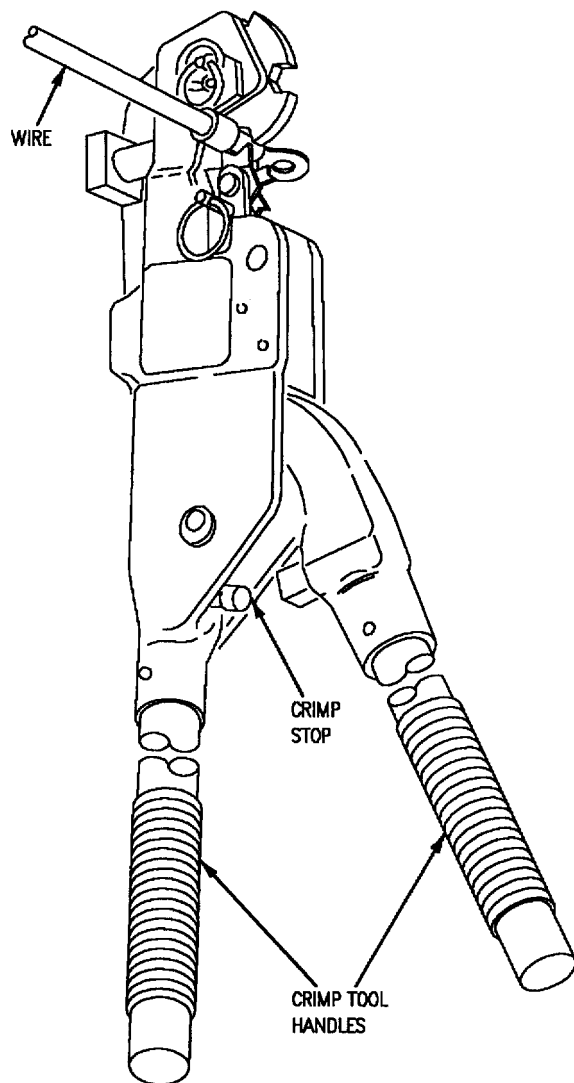
b. Position terminal so that terminal insulation on tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 16.



F/A-18-WRM-(39-1)01-CATI

Figure 16. Crimp Positioning - Insulated Terminal

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 17.



F/A-18-WRM-(35-1)01-CATI

Figure 17. Crimping Terminal - Insulated

d. Open crimp tool handles and remove terminal and wire assembly and inspect for cracked terminal barrel, crushed wire insulation, crimp in center of terminal barrel, wire not inserted far enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

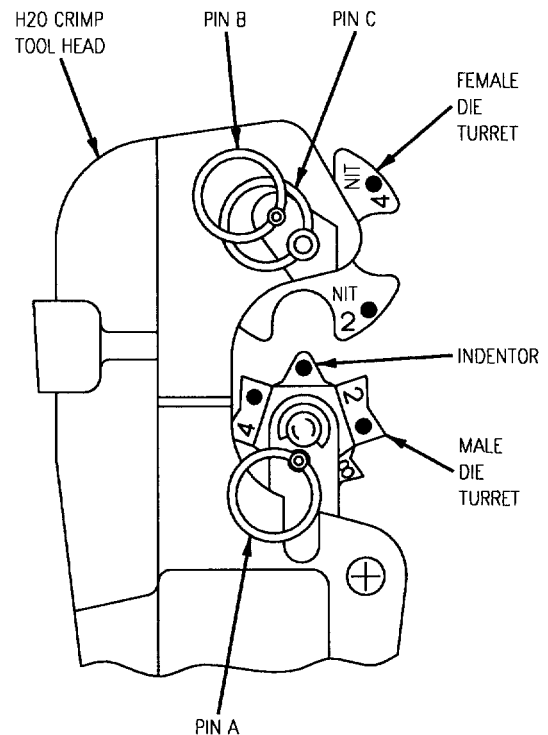
23. DIE TURRET REMOVAL - INSULATED.

a. Remove pins B and C from tool head and remove female die turret. See figure 14.

b. Install pins B and C in tool head.

24. CRIMP TOOL ARRANGEMENT FOR NON-INSULATED TERMINALS.

a. Remove pin A and rotate male die until indenter with white spot is in up position. See Figure 18.



F/A-18-WRM-(36-1)01-CATI

Figure 18. Indentor Positioning

b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.

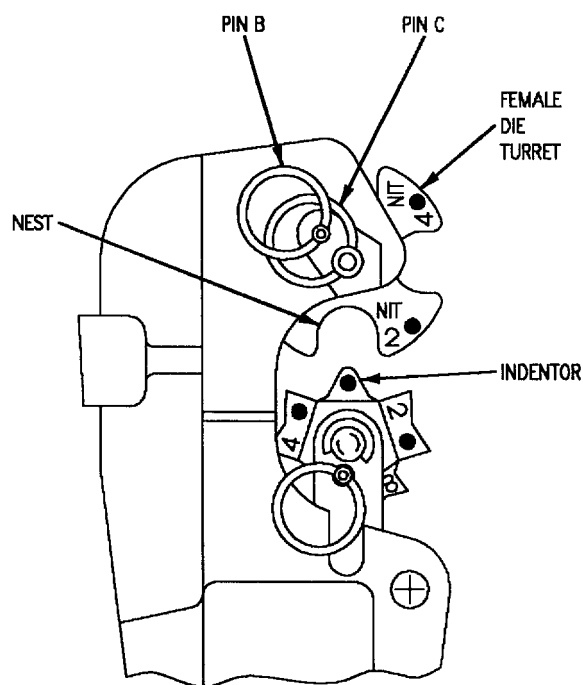


To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

d. Slide female die turret (H20N) into tool head with wire size markings on same side as the markings on the male die turret.

e. Install pin C to hold female die turret in position.

f. Rotate female die turret until required nest size is in line with indenter. See figure 19.



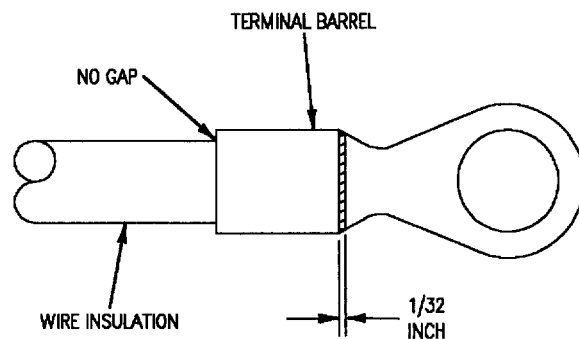
F/A-18WRM-(36-2)02-CATI

Figure 19. Female Die Adjustment

g. Install pin B through ring of pin C to lock the female die turret in position.

25. CRIMPING PROCEDURE - NON-INSULATED TERMINALS.

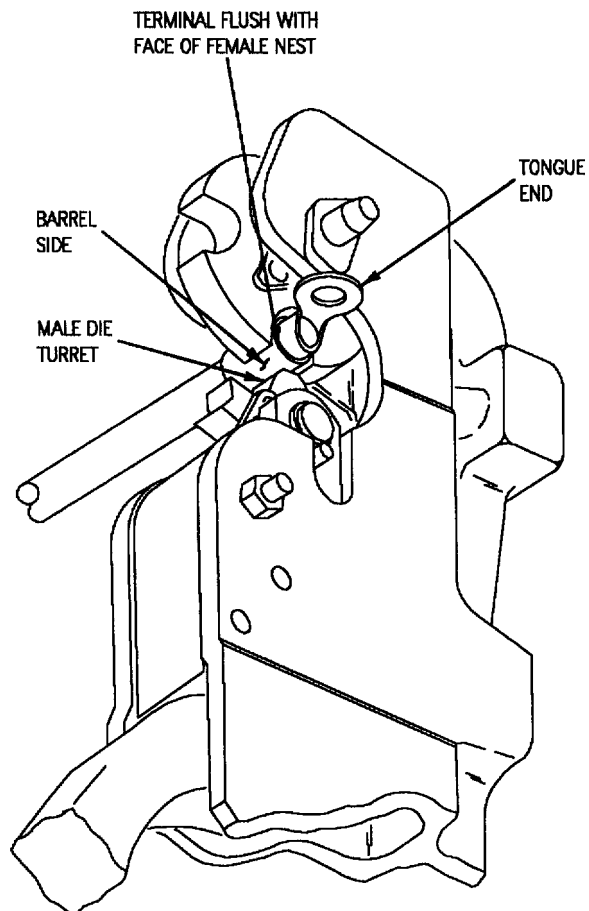
a. Insert stripped wire into terminal until wire insulation butts flush against terminal barrel. See figure 20.



F/A-18-WRM-(38-2)02-CATI

Figure 20. Non-Insulated Terminal Wire Installation

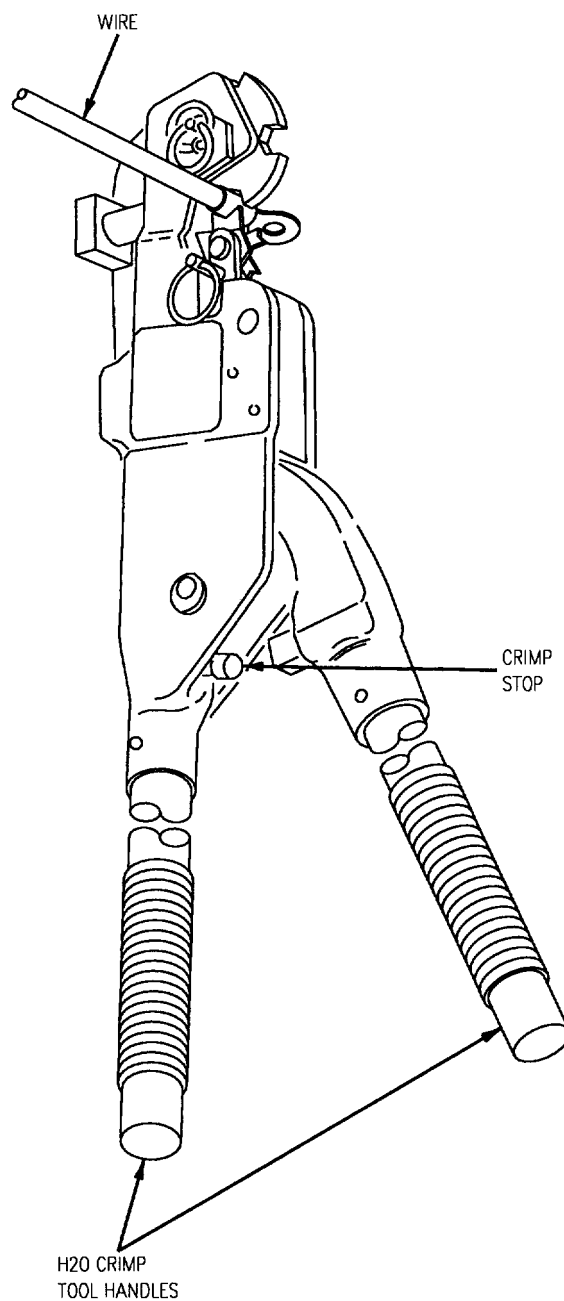
b. Position terminal so that end of terminal barrel at tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 21.



F/A-18-WRM-(39-2)02-CAT1

Figure 21. Non-insulated Crimp Positioning

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 22.



F/A-18-WRM-(35-2)02-CAT1

Figure 22. Crimping Terminal - Non-Insulated

d. Open crimp tool handles and remove terminal and wire assembly and inspect for cracked terminal barrel, crushed wire insulation, crimp in center of terminal barrel, wire not inserted far enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

26. **DIE TURRET REMOVAL - NON-INSULATED.**

a. Remove pins B and C from tool head and remove female die turret. See figure 19.

b. Install pins B and C in tool head.

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR

INSERTION AND REMOVAL TOOL

Reference Material

None

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Record of Applicable Technical Directives

None

1. DESCRIPTION.

a. Connectors which have removable contacts are of two types; front release or rear release. Insertion and removal tools are used to install and remove the contacts. A separate tool is used for each contact size. The tools are made of plastic or metal and have single or double ends. The double ended tools are used for removal and installation, and are color coded according to contact size.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
TT-I-735, GRADE B	Isopropyl Alcohol

2. USE OF INSERTION TOOL FOR FRONT RELEASE CONNECTORS.

a. Select correct insertion tool by doing the sub-steps below:

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

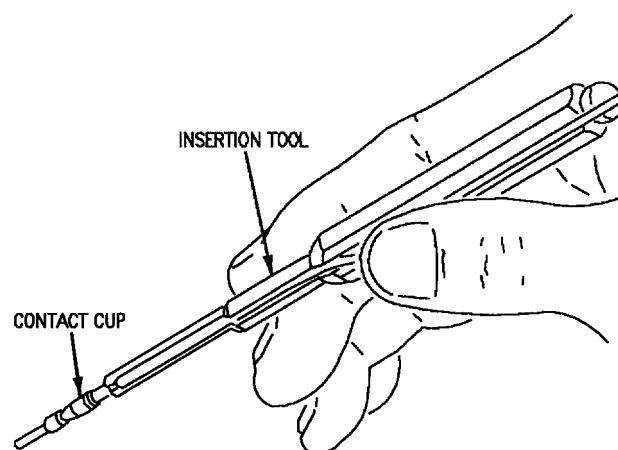
(2) Select insertion tool specified in table 1 (Tool Data) of the connector figure number.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for insertion of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

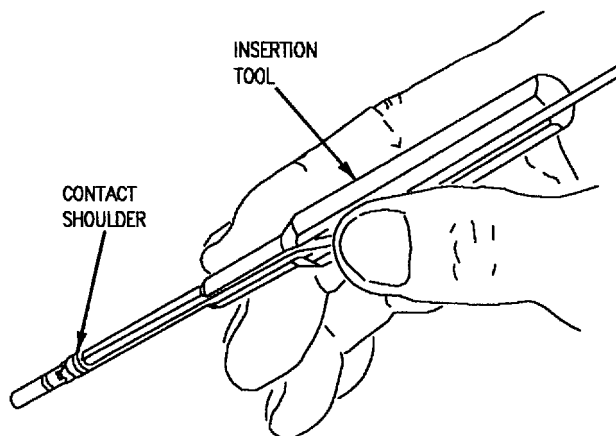
c. Contacts with insulation cups are inserted by sliding cup into front end of insertion tip until end of cup butts against shoulder in insertion tip. See figure 1.



F/A-18-WRM-(723-4)02-SCAN

Figure 1. Inserting Tool into Cup of Contact

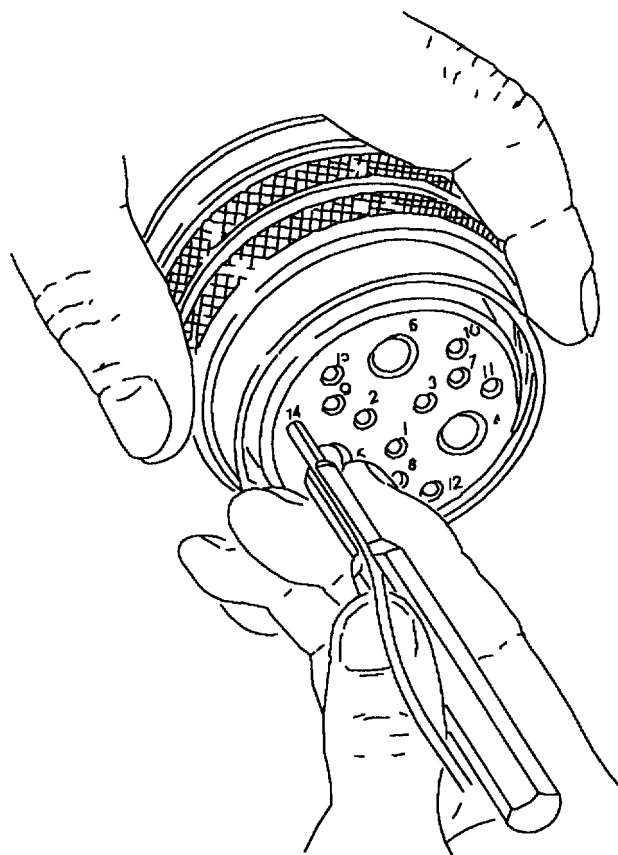
d. Contacts without insulation cups are inserted by sliding wire barrel into front end of insertion tip until contact shoulder butts against insertion tip. See figure 2.



F/A-18-WRM-(721-7)02-SCAN

Figure 2. Inserting Contact into Insertion Tool

e. At right angle to connector insert, align contact with cavity in connector and press contact firmly with insertion tool to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 3.



F/A-18-WRM-(442-1)02-CATI

Figure 3. Inserting Contact into Connector

CAUTION

Damage may occur to contact insertion tool if tilted or rotated when in connector insert.

f. Remove insertion tool by pulling it straight out of contact cavity and disengage from wire. Carefully pull back on wire to make sure that contact is correctly seated.

3. USE OF INSERTION TOOL FOR REAR RELEASE CONNECTORS.

a. Select correct insertion tool by doing the sub-steps below.

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

(2) Select insertion tool specified in table 1 (Tool Data) of the connector figure number.

WARNING

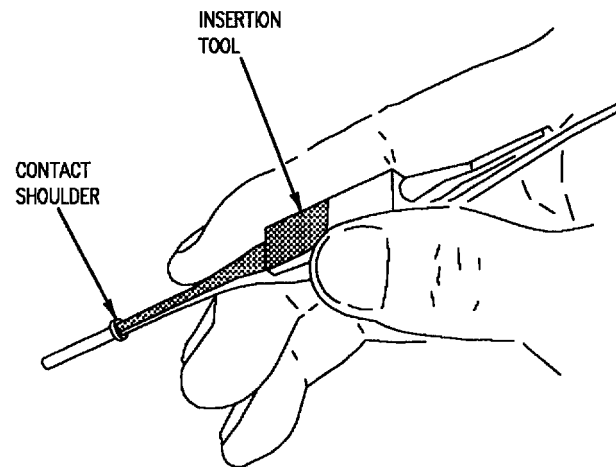
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for insertion of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

c. Place wire and contact assembly into insertion tool and position tool tip over crimp barrel to butt contact shoulder. See figure 4.

CAUTION

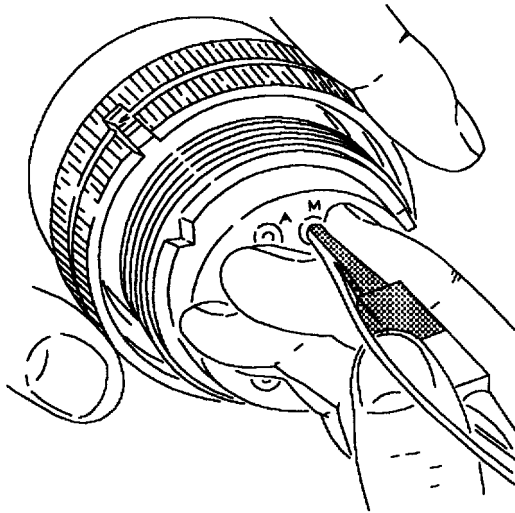
Damage may occur to contact if insertion tool is tilted or rotated when in connector insert.



F/A-18-WRM-(W150-12)01-SCAN

Figure 4. Inserting Contact into Insertion Tool

d. At right angle to connector insert, align contact with cavity in connector and press contact firmly with insertion tool to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 5.

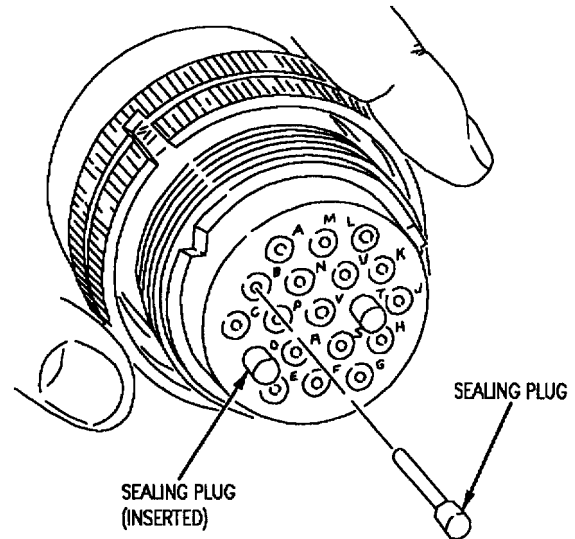


F/A-18-WRM-(443-1)02-SCAN

Figure 5. Inserting Contact into Connector

e. Remove insertion tool by pulling it straight out of contact cavity, disengage from wire. Carefully pull back on wire to make sure that contact is correctly seated.

f. Fill all unused contact cavities with uncrimped contacts, then insert sealing plug, small diameter first, until it bottoms against contact cavity. See figure 6.



F/A-18-WRM-(443-2)02-SCAN

Figure 6. Inserting Sealing Plug(s) into Connector

4. USE OF REMOVAL TOOL FOR FRONT RELEASE CONNECTORS.

5. WIRED CONTACT REMOVAL FROM CONNECTOR.

a. Select correct removal tool by doing the sub-steps below:

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

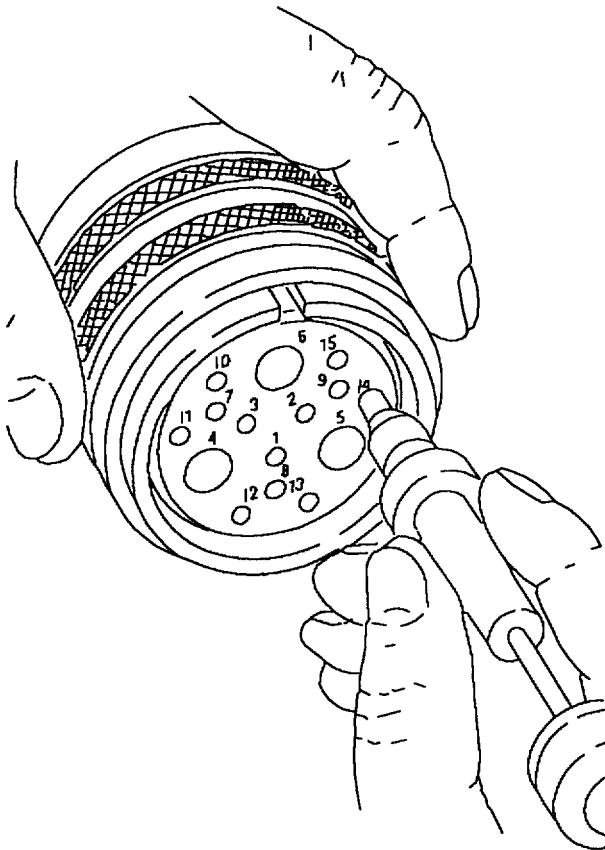
(2) Select removal tool specified in table 1 (Tool Data) in the connector figure number.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

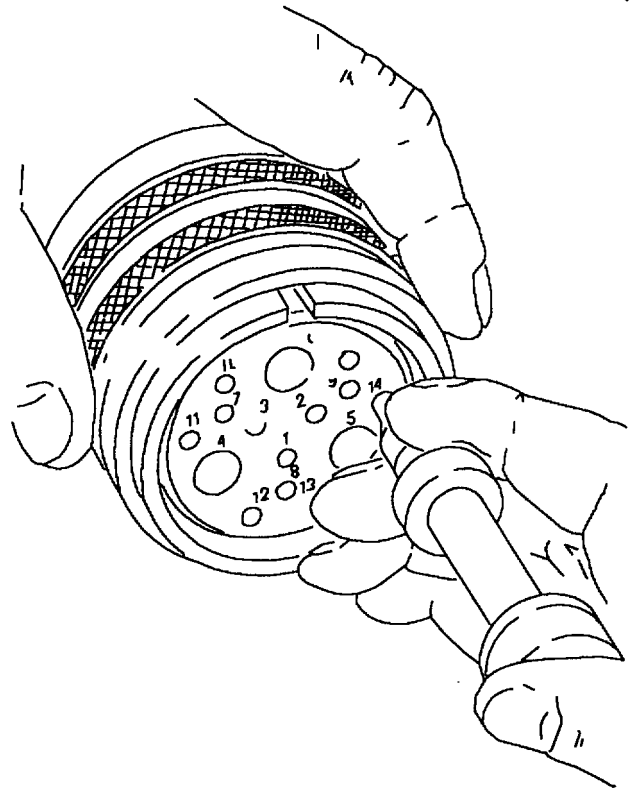
c. Working from front (mating end) of connector, slide hollow end of removal tool over contact to be removed. Holding removal tool at a right angle to front insert face, push tool straight toward rear of connector, firmly pressing tool to positive stop when it bottoms in insert cavity. See figure 7.



F/A-18-WRM-442-13)-2-CATI

Figure 7. Insertion of Removal Tool into Connector

d. Maintain pressure on tool handle and push plunger forward until it stops. Contact shall be partially ejected from rear of connector insert. See figure 8.

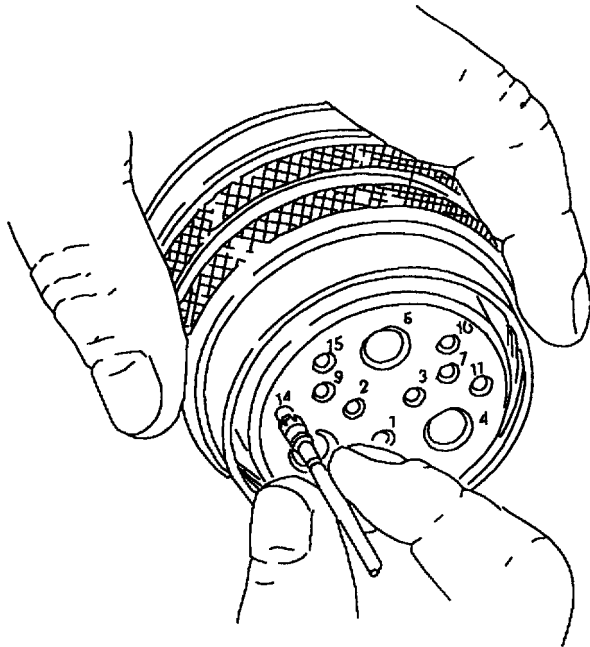


F/A-18-WRM-(442-5)02-CATI

Figure 8. Ejection of Contact

e. Remove tool from contact cavity by pulling straight back to clear connector insert face.

f. Remove contact from rear of connector. See figure 9.



F/A-18-WRM-(442-3)02-CATI

Figure 9. Removing Contact from Connector

6. USE OF REMOVAL TOOL FOR REAR RELEASE CONNECTORS.

a. Select correct removal tool by doing the sub-steps below.

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

(2) Select removal tool specified in table 1 (Tool Data) in the connector figure number.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

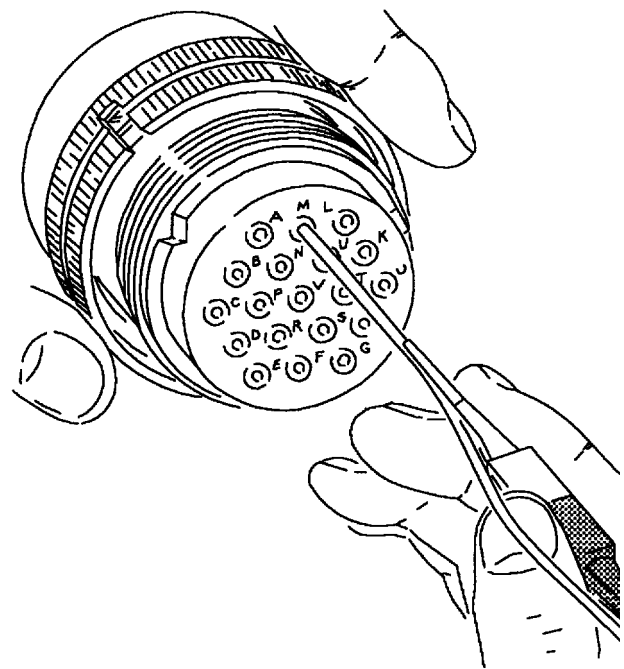
b. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

CAUTION

Do not use tools that have burrs or sharp edges. Burrs or sharp edges can cut through grommet wire sealing webs and destroy the environmental sealing capabilities of a connector.

c. Place wire of contact to be removed into removal tool, with tool tip facing connector insert.

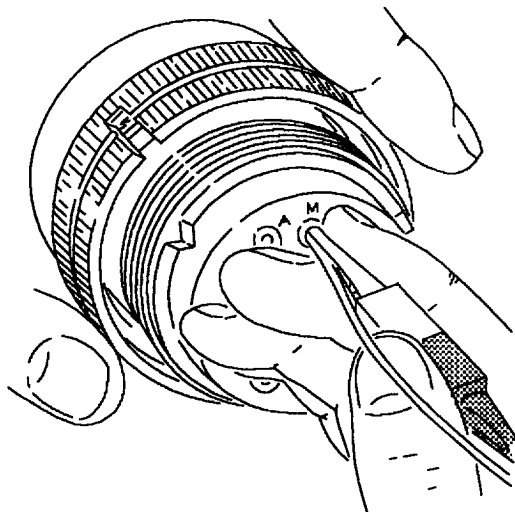
d. Slide removal tool along wire at right angle to connector insert and align with contact cavity. See figure 10.



F/A-18-WRM-(443-3)02-SCAN

Figure 10. Removal Tool on Wire

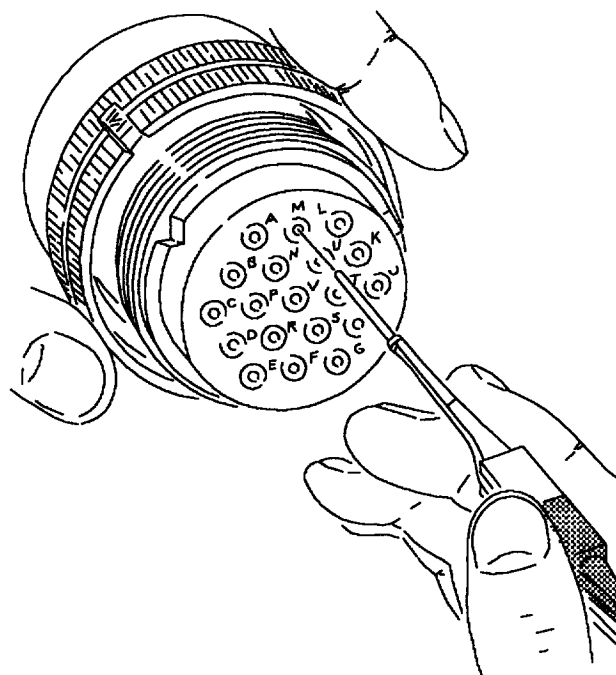
e. Insert tool into contact cavity until tool tip bottoms against contact shoulder. See figure 11.



F/A-18-WRM-(443-4)02-SCAN

Figure 11. Unlocking Contact Mechanism

f. Hold wire and tool and pull straight out from contact cavity. See figure 12.



F/A-18-WRM-(443-5)02-SCAN

Figure 12. Removing Contact from Connector

7. UNWIRED CONTACT REMOVAL FROM FRONT RELEASE CONNECTOR.

a. Select correct removal tool by doing the sub-steps below:

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

(2) Select removal tool specified in table 1 (Tool Data) in the connector figure number.

WARNING

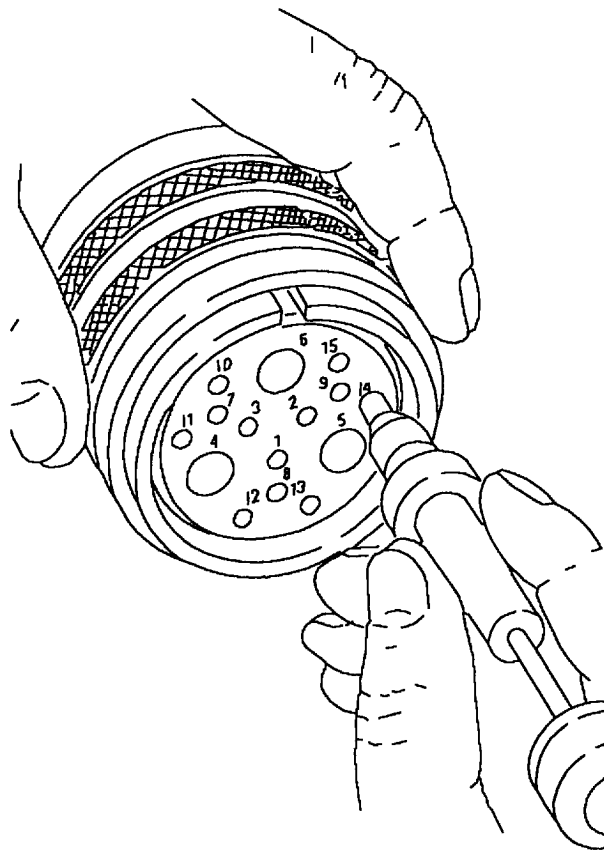
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

CAUTION

Do not use tools that have burrs or sharp edges. Burrs or sharp edges can cut through grommet wire sealing webs and destroy the environmental sealing capabilities of a connector.

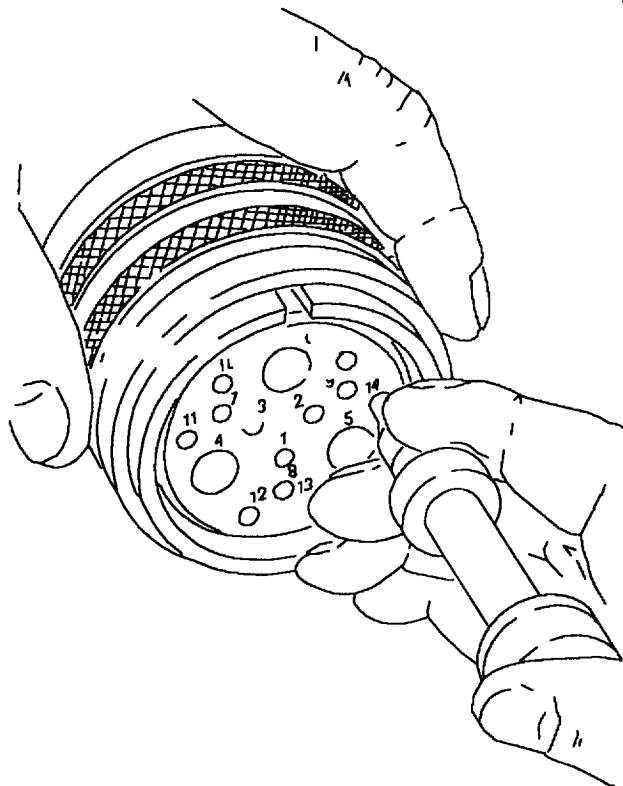
c. Working from front of connector, slide hollow end of removal tool over contact to be removed. See figure 13.



F/A-18-WRM-(442-13)02-CAT I

Figure 13. Unlocking Contact Retention Mechanism

d. Holding removal tool at a right angle to front insert face, push tool straight toward rear of connector, firmly pressing tool to positive stop when it bottoms in insert cavity. See figure 14.



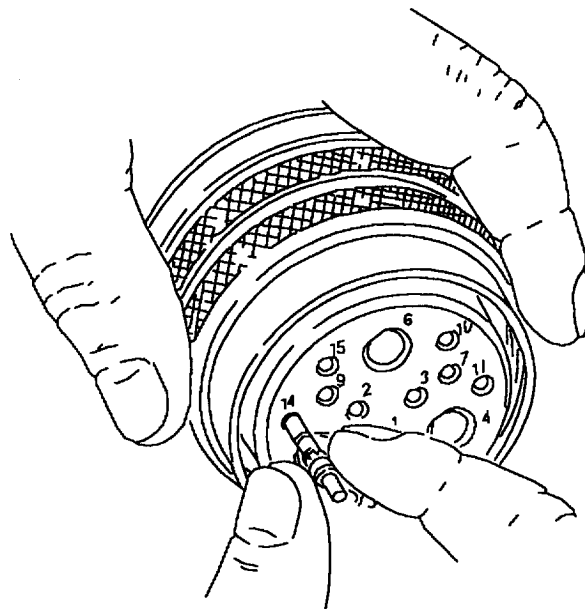
F/A-18-WRM-(442-5)02-CAT I

Figure 14. Ejection of Contact

e. Maintain pressure on tool handle and slide plunger forward until it stops. Contact shall be partly ejected from rear of connector insert.

f. Remove tool from contact cavity by pulling straight back to clear connector insert face.

g. Remove contact from rear of connector. See figure 15.



F/A-18-WRM-(442-5)02-CAT I

Figure 15. Extracting Contact from Connector

8. UNWIRED CONTACT REMOVAL FROM REAR RELEASE CONNECTOR.

a. Select correct removal tool by doing the sub-steps below:

(1) Determine correct connector figure number from the Reference Designation to Figure Number Index found in correct connector repair work package.

(2) Select removal tool specified in table 1 (Tool Data) in the connector figure number.

WARNING

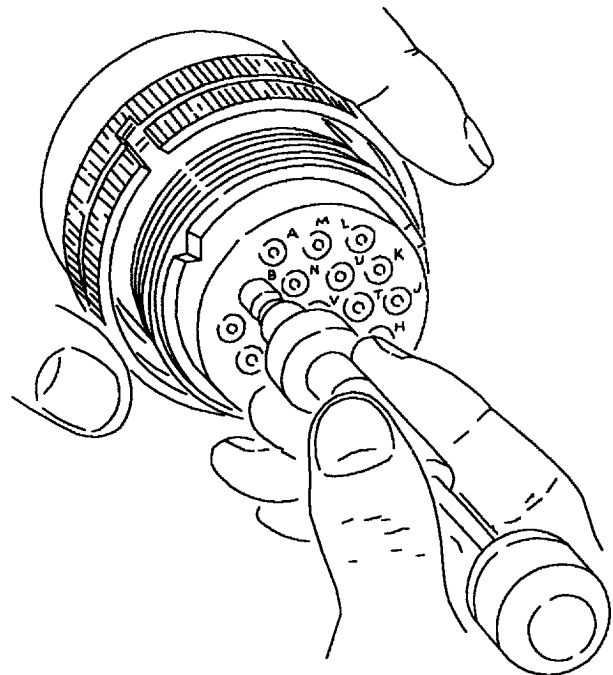
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.



Do not use tools that have burrs or sharp edges. Burrs or sharp edges can cut through grommet wire sealing webs and destroy the environmental sealing capabilities of a connector.

c. Insert unwired removal tool tip into contact cavity until it bottoms in contact cavity and releases contact retention mechanism. See figure 16.

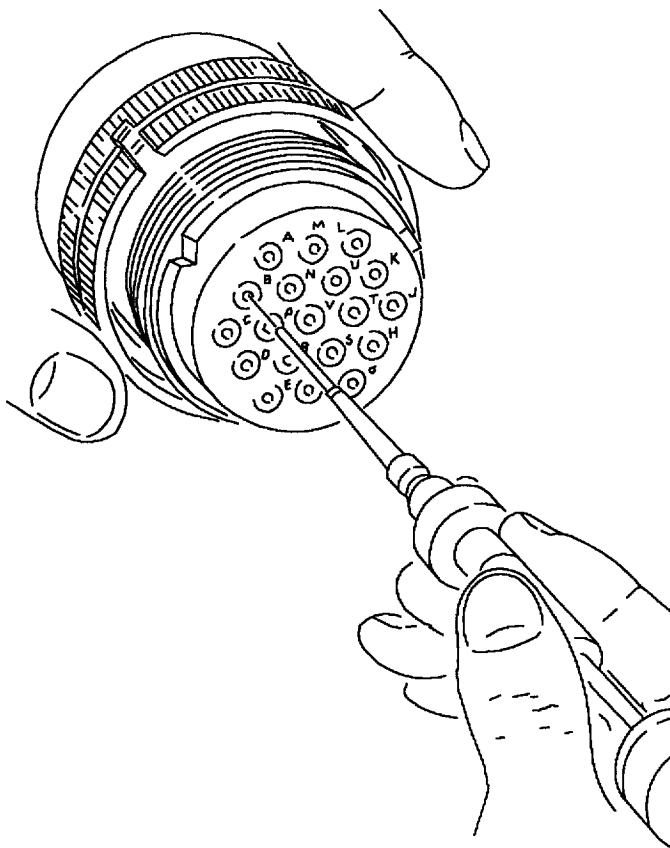


F/A-18-WRM-(443-8)02-SCAN

Figure 16. Unlocking Contact Retention Mechanism with Unwired Contact Removal Tool

d. Grip tool and withdraw unwired removal tool and contact from rear of the connector. See figure 17.

e. Remove contact by holding unwired removal tool and press plunger forward.



F/A-18-WRM-(443-07)02-SCAN

Figure 17. Extracting Contact from Connector

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

USE OF THE

TIME DOMAIN REFLECTOMETER (TDR)

This WP supersedes WP 015 00, dated 1 October 1993.

Reference Material

1502 Time Domain Reflectometer Instruction Manual	Tektronix Part No. 070-1792-00 Tek- tronix TDR Cable Tester Application Note
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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides a general description of time domain reflectometry (TDR) measurements, physical and functional descriptions, and setup and operation for the time domain reflectometry test set, Tektronix 1502-4 set. The TDR used with the 74D420048-1001 IMP Adapter Reflect Kit is used to check out the F18 aircraft wiring. Refer to individual system manuals for data related to the wiring.

Support Equipment Required

Part Number or Type Designation	Nomenclature
1502-4	TDR Cable Tester
74D420048-1001	IMP Adapter Reflect Kit

Materials Required

None

3. GENERAL DESCRIPTION OF TIME DOMAIN REFLECTOMETRY (TDR) MEASUREMENTS.

4. TDR measurements use radar principles to locate and identify transmission line faults by transmitting a pulse into a transmission line or antenna. If there is any deviation in the impedance of the line or antenna, part of the pulse is reflected back to the TDR test set. A reflection from greater than line impedance will cause a positive change on the TDR test set display, and a reflection from less than line impedance will cause a negative change on the display. A TDR slide rule is provided with the test set to convert reflected pulse amplitude to impedance in ohms. An impedance nomograph (figure 1) may be used instead of the TDR slide rule. The CRT is calibrated in millirhos.

5. Faults in a transmission line can cause substantial loss of power or distort a transmitted signal. The TDR test set will detect and display significant changes in the characteristic impedance (mismatches, shorts, and opens) of a transmission line. The shape of the reflected pulse is the signature of the fault type. The time it takes the pulse to return is directly proportional to the distance down the transmission line. Figure 2 shows the characteristic downward trace of a transmission line with a shorted termination (zero impedance).

Shorts can be caused by mechanical damage or by moisture seeping through a crack in the dielectric. A crimped transmission line will cause a decrease in impedance at one point in a transmission line as exhibited in figure 3. Crimping can be caused by excessive bending of transmission lines or by equipment shifting against a transmission line. The upward trace of an open transmission line is shown in figure 4. Opens (infinite impedance) are caused by a physical separation of the conductor or the shield due to stretching or mishandling of a transmission line. Equipment vibrating against a transmission line will cause the sheath to become frayed and display a trace similar to figure 5. Fraying causes an increase in transmission line impedance.

6. Since TDR is a high-resolution pulse system which simulates a wide band of frequencies (from 0 to approximately 2 gigahertz), it cannot test narrow band devices such as waveguides, high pass filters, or low pass filters. TDR provides a quick, efficient method of detecting physical transmission line damage (such as crimps, abrasions, fluid contamination, and connector corrosion).

7. TIME DOMAIN REFLECTOMETRY (TDR) TEST SET.

8. The Tektronix 1502-4 TDR test set is a small, lightweight, battery or ac powered, portable test set used to test rf transmission lines and antennas (figure 6). For a detailed description of the TDR test set, refer to Tektronix 1502 Time Domain Reflectometer Instruction Manual.

9. The TDR test set is powered by 115-volt ac, 60-hertz power or an internal 12-volt battery pack. With a full charge it will operate for a minimum of 5 hours (including 20 chart recordings). The battery pack will fully charge in 16 hours when connected to an ac power source and the TDR test set is off. (The battery pack will not overcharge if the charger is left on longer than 16 hours.)

10. Front panel controls are shown in figure 7 with a brief description of each.

11. The TDR test set plug-in compartment will accept either the X-Y output module or the Tektronix Y-T chart recorder. (The 1502-4 TDR test set furnishes both items.) The X-Y output module provides an interface for an X-Y recorder.

The Y-T chart recorder uses a heated stylus to record on heat-sensitive chart paper. The grids on the chart paper correspond directly with the grids on the TDR test set displays therefore, a transmission line signature is expanded horizontally at a ratio of five to one when compared with the TDR test set display as shown in figure 8.

12. INITIAL TURN ON AND ADJUSTMENT. The procedure below is to be done before testing transmission lines and antennas.

a. Set front panel control as follows:

Control	Position
FOCUS	Midrange
INTENSITY	Midrange
ZERO REF	Fully cw
POSITION	Midrange
mp/DIV	500
DISTANCE	000
FEET/DIV	1
X1-X.1	X1
CABLE DIELECTRIC	SOLID POLY

b. Pull the POWER switch on.

c. Adjust INTENSITY and focus controls for a clear bright trace.

d. Adjust POSITION controls to set trace two divisions below horizontal centerline.

e. Attach precision, 50-ohm cable to CABLE connector.

f. Adjust ZERO REF SET control until incident pulse edge (first vertical rise) is located on reference or second vertical line (figure 9). Reflected pulse from open end of 50-ohm transmission line should be a second vertical rise and should be three horizontal divisions right of reference line.

g. Adjust ZERO REF SET control throughout its range to verify that incident pulse edge can be set on any vertical graticule.

h. Return incident pulse edge to reference line.

i. Adjust DISTANCE dial to 050 and verify top of reflected pulse (second rise) is two vertical divisions above centerline. If necessary, adjust GAIN control (screwdriver adjustment).

j. Press and hold ZERO REF CHECK button and verify that incident pulse edge returns to vertical reference line.

k. Release ZERO REF CHECK button.

l. Adjust DISTANCE dial to 000.

m. Place mp/DIV switch in 50 and adjust POSITION controls so top of incident pulse is on horizontal centerline.

n. Press NOISE FILTER button and verify a reduction in displayed noise and scan rate. Press NOISE FILTER button again to release.

o. Place mp/DIV switch in 500.

p. Press and hold RECORD/CAMERA switch in CAMERA. Complete crt should be flooded on retrace to illuminate graticule when taking photographs.

q. Release RECORD/CAMERA switch.

r. Press and hold RECORD/CAMERA switch in RECORD. A bright spot should appear at left edge of crt.

s. Release RECORD/CAMERA switch. Slow scan of spot will trace displayed waveform. When scan is complete, TDR test set will automatically return to its normal mode of scanning. (If a chart recorder is installed, a recording will be made.)

13. TDR TESTING. Testing procedures are provided using an impedance reference of 50 ohms as below:

a. With TDR test set at test location, do initial turn on and adjustment procedure (paragraph 12).



Do not connect live circuit transmission lines to input of TDR test set. Voltages in excess of 5 volts can damage sampling bridge or tunnel diode.

Bleed static charge from transmission lines before connecting to TDR test set. The 50-ohm termination and BNC adapter may be used to bleed any static charge from transmission lines. When testing an antenna, maintain a safe distance from transmitters that may be keyed at antenna receiving frequency. Electromagnetic radiation can cause damage if transmitted into TDR test set.

NOTE

A 50-ohm extender cable may be used between TDR test set and precision 50-ohm cable when needed. The ZERO REF SET control should be adjusted to set connection between extender cable and precision 50-ohm cable on reference line.

b. Using adapter or adapter cable, connect precision 50-ohm cable to transmission line to be tested.

c. Adjust the mp/DIV, FEET/DIV, and POSITION controls as necessary to obtain signature of transmission line under test on display. For correct cable parameters refer to applicable system(s) manual. (Settings for mp/DIV and FEET/DIV controls are given on all graphs.)

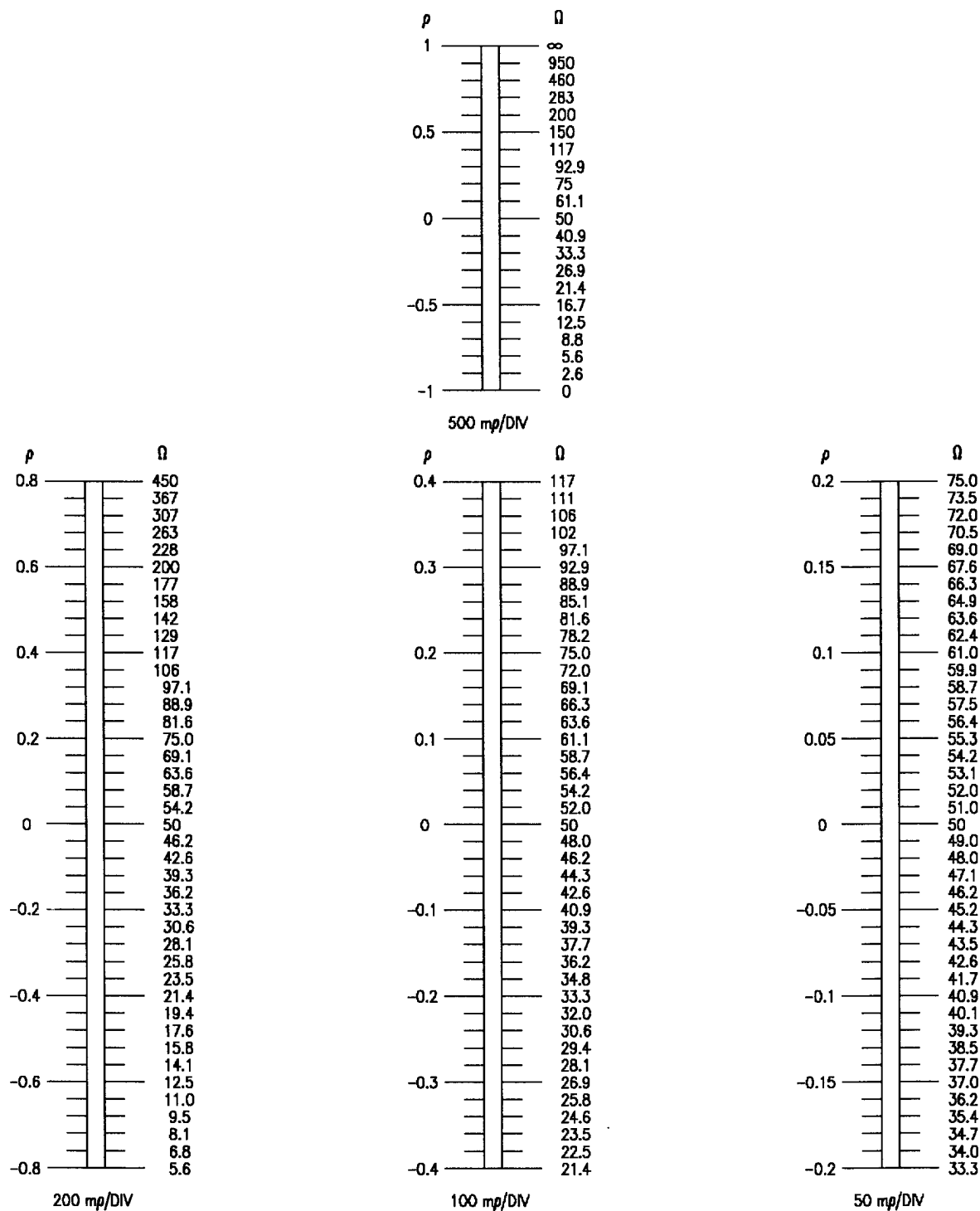
d. Compare display with graph or transmission line specifications. If fault exists, proceed with (paragraph 14).

14. **USE.** The primary use of the time domain reflector consists of locating point of failure and determining type of fault. Figures 2 through 5 show the different types of fault. The following procedure is used to locate point of failure.

a. Verify that distance dial is set to 000.

b. Adjust ZERO REF SET control until beginning of transmission line or bad segment is set on vertical reference line.

c. Adjust DISTANCE dial until fault is positioned on vertical reference line. Indication on DISTANCE dial times multiplier given distance to fault.



LEGEND

LOCATE THE COLUMN OVER THE SETTING OF THE mp/DIV SWITCH, FIND THE ρ VALUE ON THE LEFT SIDE OF THE COLUMN AND READ THE IMPEDANCE ON THE RIGHT SIDE CORRESPONDING TO THE ρ VALUE.

Figure 1. Impedance Nomograph (Sheet 1)

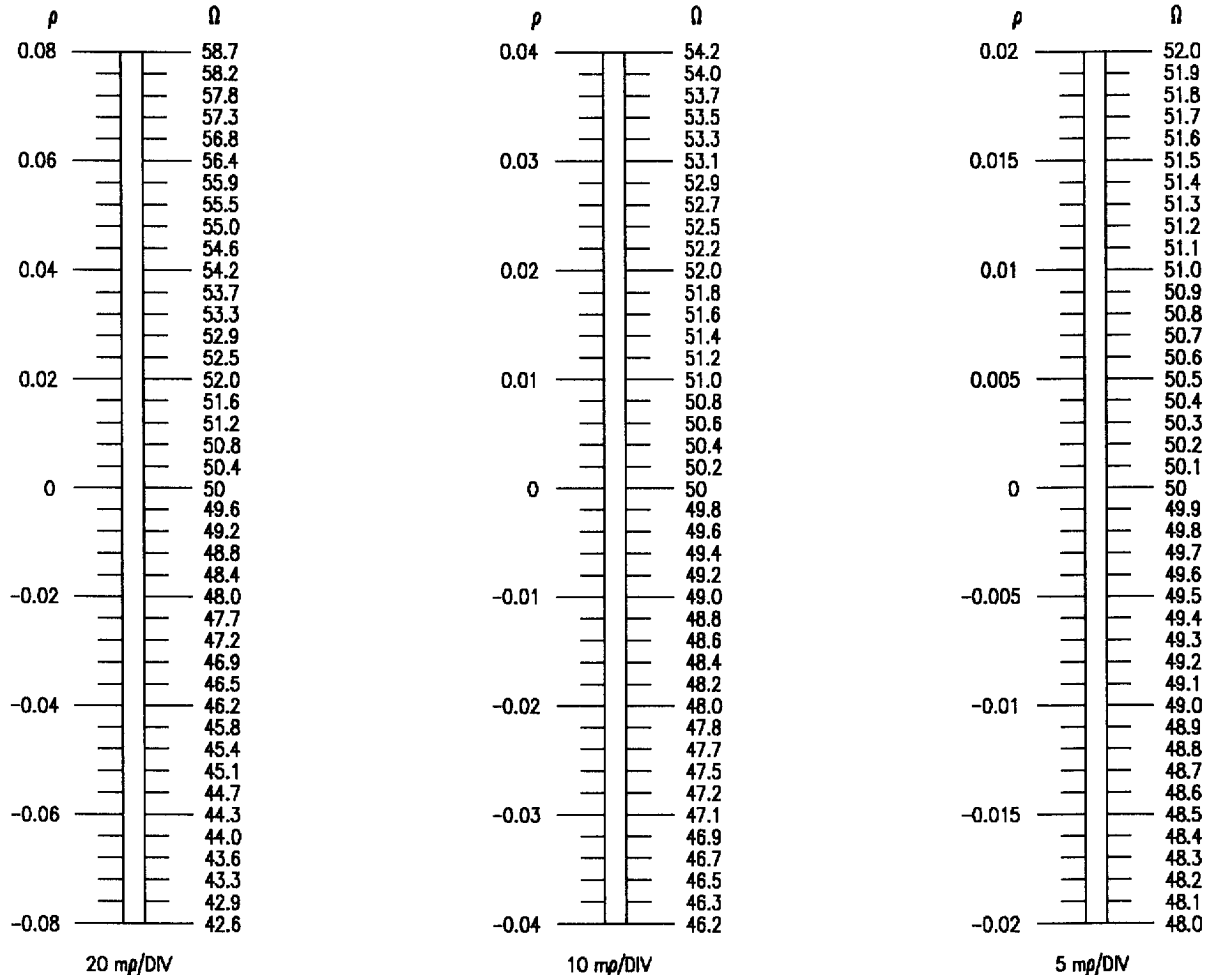


Figure 1. Impedance Nomograph (Sheet 2)

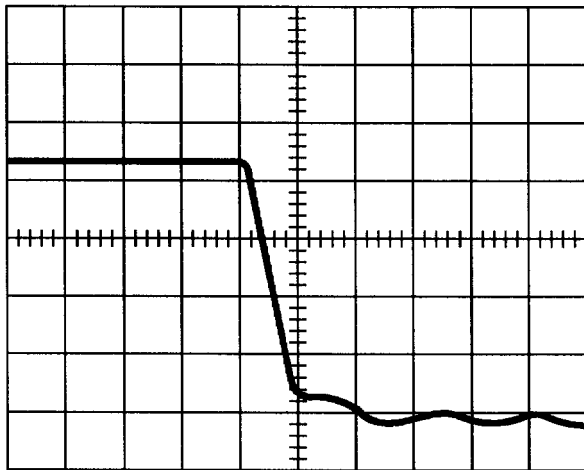


Figure 2. Shorted Cable

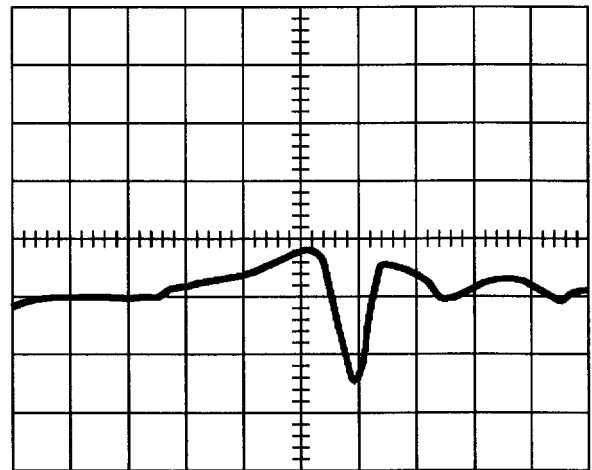


Figure 3. Crimped Cable

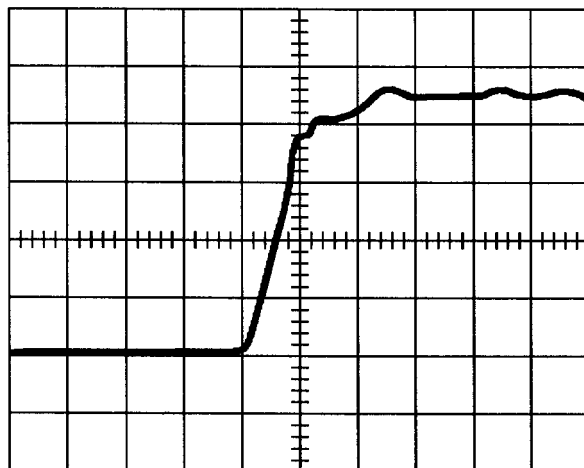


Figure 4. Open Cable

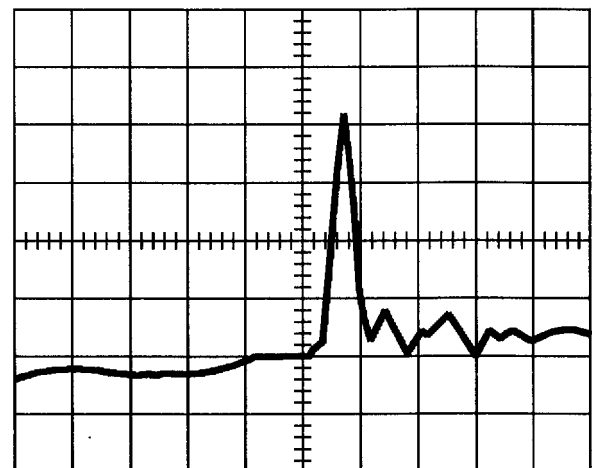


Figure 5. Frayed Cable

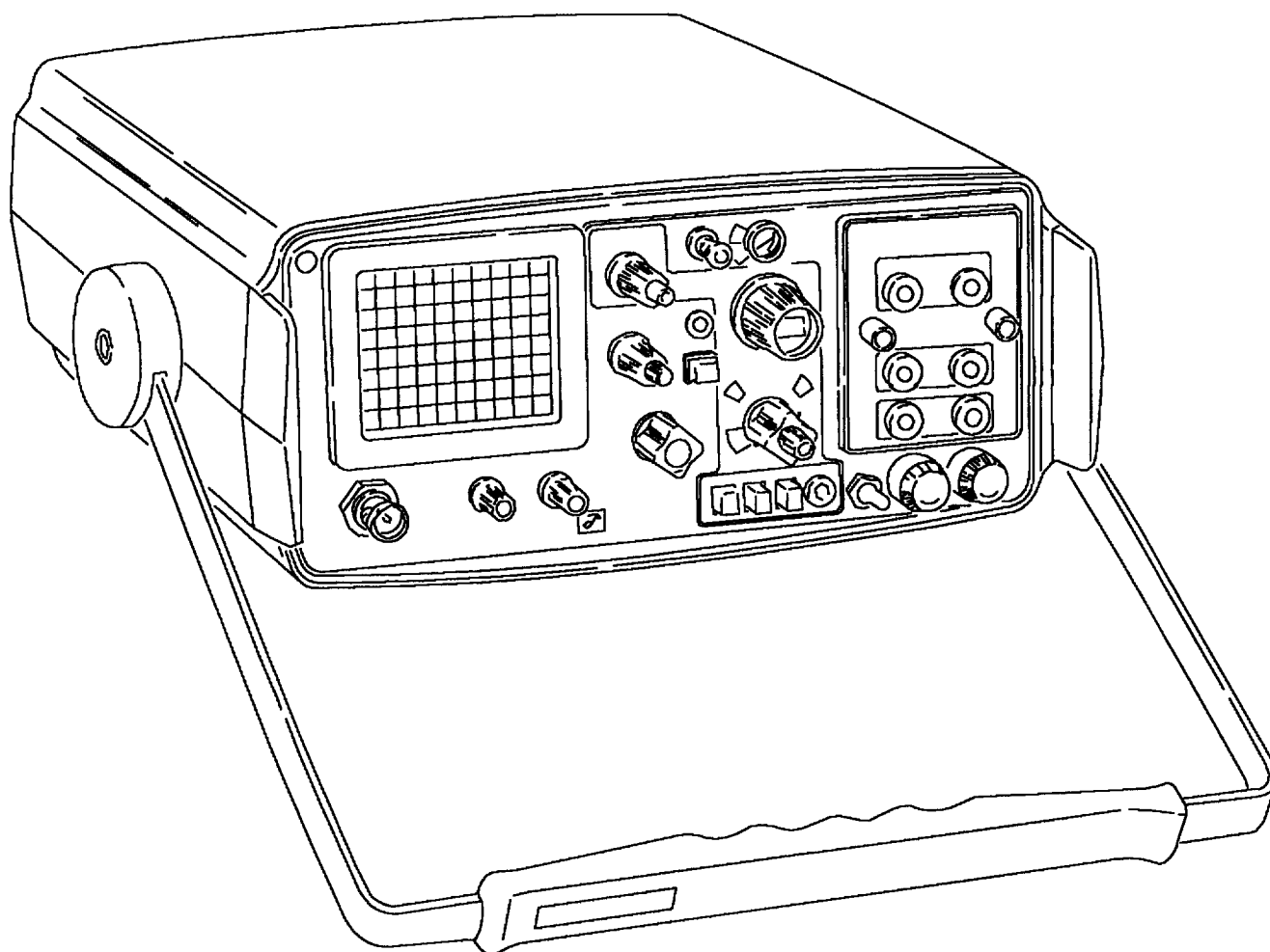
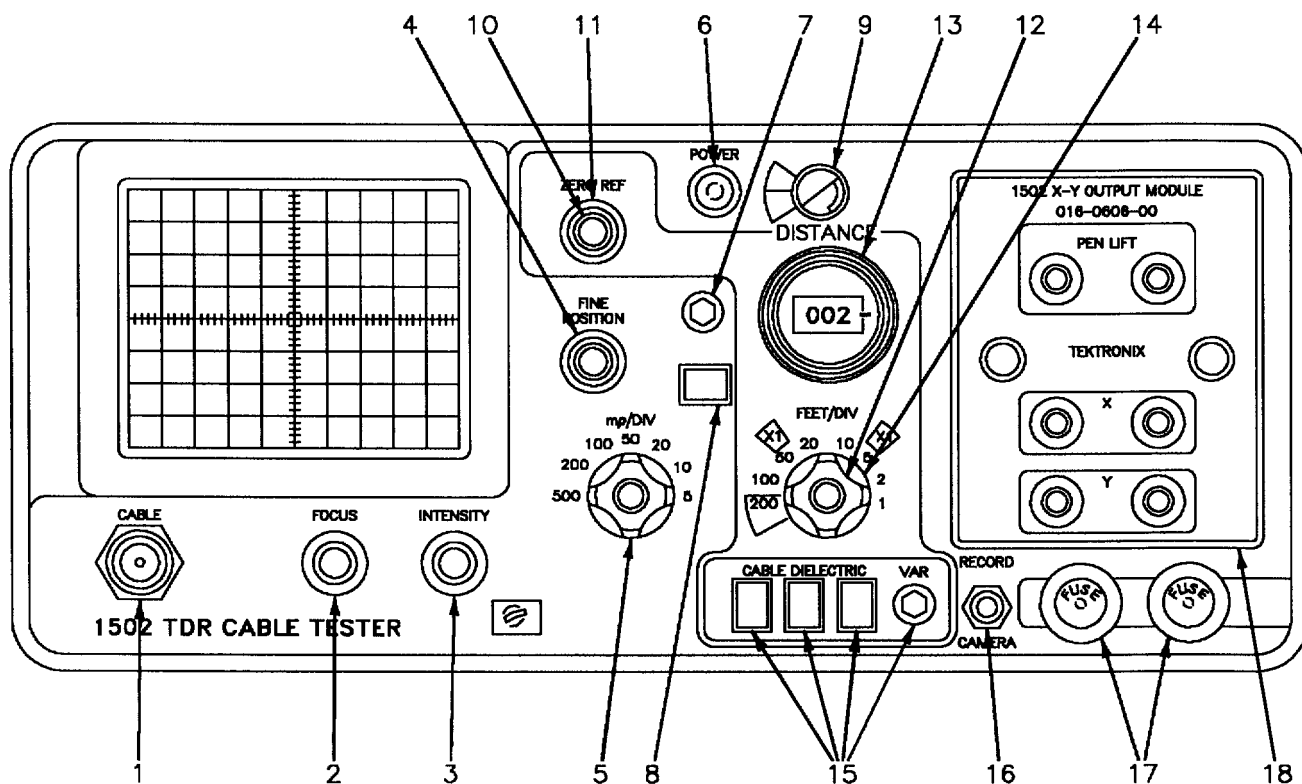


Figure 6. TDR Test Set



INDEX NO.	CONTROL/INDICATOR	FUNCTION
1.	CABLE	BNC Connector – delivers 110 ps risetime pulse to the test cable and receives the reflected return pulse.
2.	FOCUS	Adjusts the focus of the crt electron beam.
3.	INTENSITY	Controls the brightness of crt display.
4.	POSITION/FINE	Vertical position control of the crt display. The outer control is a coarse adjustment and the inner control is a fine adjustment.
5.	mp/DIV	Selects the vertical deflection factor – 5 mp/div to 500 mp/div (5–2–1 sequence).
6.	POWER	Push–pull, off–on switch (pull for on) – does not affect the battery charging circuit.
7.	GAIN	Screwdriver adjust to set the gain of the vertical amplifier.
8.	NOISE FILTER	Reduces display noise. Display rate is reduced by a factor of 10.
9.	BATTERY	Meter to indicate the relative charge of the power pack.
10.	ZERO REF CHECK	Momentary contact pushbutton. When pushed, checks the horizontal location of the incident pulse on the crt when the DISTANCE dial is being used.

Figure 7. Front Panel Controls (Sheet 1)

INDEX NO.	CONTROL/INDICATOR	FUNCTION
11.	ZERO REF SET	Horizontal pulse position control for crt display. Sets the incident pulse edge to vertical reference line of the crt when the DISTANCE dial is at 000 or the ZERO REF CHECK button is pushed.
12.	MULTIPLIER	Two-position switch (red control) for X.1 or X1 multiplier. Affects both the DISTANCE dial and the FEET/DIV control.
13.	DISTANCE	Indicates the distance from the 1502 to the point on the cable where the display window begins. Two ranges: 100 feet at X.1 or 1000 feet at X1. Disabled when the FEET/DIV is at 200 (FIND).
14.	FEET/DIV	Selects the horizontal deflection factor: X1 = 1-200 FT/DIV X.1 = 1-20 FT/DIV
15.	CABLE DIELECTRIC SOLID POLY SOLID PTFE OTHER VAR	Three pushbuttons and a screwdriver adjust. Selects the proper velocity of propagation. VAR from 0.55 to 1.0 when the OTHER pushbutton is pressed. Fully CW is for air dielectric. VAR control has reference marks every 30° to indicate relative propagation constants.
16.	RECORD/CAMERA	Two-position lever switch; pushed up and then released, it starts X-Y recorder or a chart recorder; pushed down, it floods the crt during retrace to display graticule for photography.
17.	AC LINE FUSES	Protection fuses for line power and battery charging circuits (0.5A fuses for 115VAC; 0.3A fuses for 230VAC).
18.	X-Y OUTPUT MODULE	The standard plug-in module for the 1502. Used to drive an external X-Y Chart Recorder.
	X, Y, and PEN LIFT	Six front panel jacks used for driving an external X-Y recorder. X jacks are for horizontal drive. Y jacks are for vertical drive. PEN LIFT jacks are for pen control.
	Y-T CHART RECORDER (Not shown)	An optional Tektronix Y-T chart recorder which replaces the X-Y OUTPUT MODULE.
	STYLUS POSITION	Screwdriver adjustment on Y-T CHART RECORDER front panel. Adjusts the stylus to the same level as the crt display.

Figure 7. Front Panel Controls (Sheet 2)

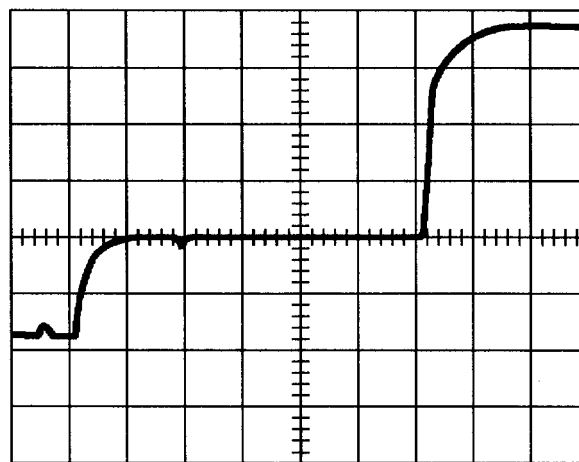
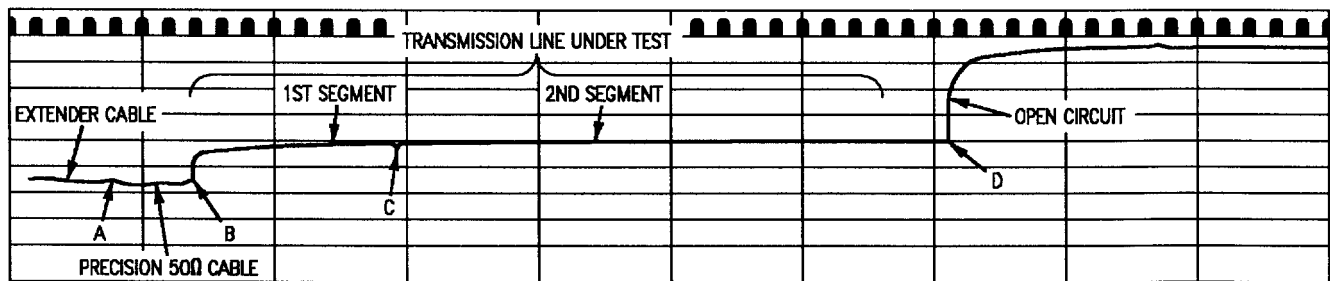


Figure 8. Comparison of Tape and Display

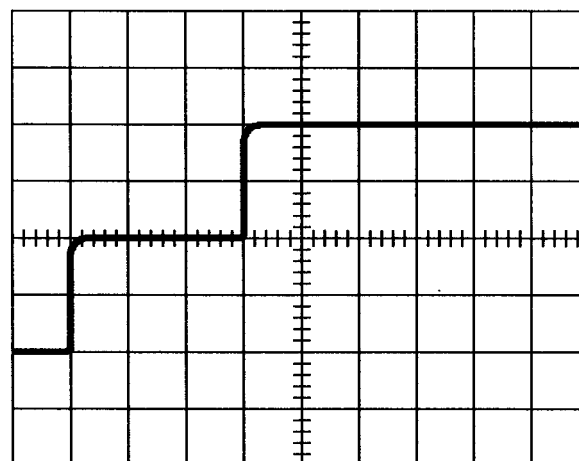


Figure 9. Adjustment Display

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA**INSTALLATION, REMOVAL AND ROUTING OF COAXIAL CABLE AND BRAIDED HARNESS ASSEMBLIES**

Reference Material

Aircraft Electric and Electronic Wiring	NAVAIR 01-1A-505
Line Maintenance Procedures	A1-F18AC-LMM-000
Wiring Diagrams	A1-F18A()-WDM-000
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Cable/Wiring Assembly Data Index	WP001 01
Reference Designation to Work Package Index	WP001 02
Sealing Of Electrical Cable Assemblies	WP022 00
Sealing Of Electrical Components	WP024 00

Alphabetical Index

Subject	Page No.
Installation Procedures	2
Installation and Removal of Cable Assemblies, Figure 1	4
Introduction	1
Materials Required	1
Support Equipment Required	1
Removal Procedures	2

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package describes the procedures for the installation, removal and routing of F-18 cable assemblies. The step by step nature of this work package is intended to be a guide in the general use of the Wiring Repair and Wiring Diagrams manuals for removing, installing, routing and repairing cable assemblies.

3. Recommended tooling and material will be specified in applicable work packages.

Materials Required

None

Support Equipment Required

None

NOTE

74A760209 Cable assembly has been chosen as an example to point out the steps necessary for removal or installation of typical cables. The details that follow will be keyed to the 602 09 work package. However, the steps done should be considered typical for all work packages in the A1-F18AC-WRM-000 series of Wiring Repair manuals. Before terminations are secured, refer to the cable assembly work package and note special instructions, if applicable, from the notes on page 2 of the work package.

4. REMOVAL PROCEDURES. See figure 1.

a. Make sure electrical and hydraulic power are off (A1-F18AC-LMM-000). Disengage all connectors from their mating interconnects. Make sure all connectors of the cable assembly to be removed are disengaged. Refer to the Cable/Wiring Assembly Data Index (WP001 01) or the Reference Designation to Work Package Index (WP001 02) of this manual.

(1) If the cable assembly identification number is known, refer to the Cable/Wiring Assembly Data Index (WP001 01) and determine the volume and work package number desired. Refer to detail A.

(2) If the reference designation of a connector (or other end item) is known, the cable assembly identification number can be found along with the desired volume and work package by referencing the Reference Designation to Work Package Index (WP001 02). Refer to detail B.

b. When the applicable work package is located the reference designations of all connectors should be noted from the parts list. Refer to detail C.

c. When the reference designations of all the connectors are known, reference should be made to the A1-F18A()-WDM-000 manuals Reference Designation Index.

d. Locate in this index the reference designations of the connectors in the cable assembly to be removed. Refer to detail D.

e. Locate each reference designation and record the location illustration number. Note that for the ex-

ample shown in Figure 1, the cable assembly routing spans from location illustration numbers L715 through L716. Refer to detail D. Illustrations show the access door locations and routing of cable assemblies with their related installation clamping. Refer to detail E.

f. Refer to each location illustration to find the required reference designation.

g. The cable assembly layout can be projected over several location illustrations. The layout of the complete cable assembly should be studied before an attempt is made to loosen or remove the cable clamps. Observe the locator callouts on figure 1 for projection to other location illustrations. Refer to detail F.

h. Make sure all reference designations are accounted for and all terminations to splices and terminal blocks are noted.

i. Remove wires from terminal blocks and splice areas.

j. Remove or loosen cable clamps as necessary from areas along the cable to be removed.

k. When a connector must be removed from the cable to extract the cable assembly from the aircraft, proceed by locating the applicable connector number in the Alphabetical Index, in the front of this manual, then refer to the work package called out.

l. When wires are terminated with those of another cable assembly in a common connector, it may be necessary to remove the connector pins or sockets of those wires from the common connector.

m. Care should be exercised when removing the cable assembly from the aircraft to prevent entanglement with other cable assemblies routed in the same areas.

5. INSTALLATION PROCEDURES. See figure 1.

a. Make sure electrical and hydraulic power are off (A1-F18AC-LMM-000). When installing cable assemblies use the A1-F18()-WDM-000 Reference Designation Index to locate the reference designations associated with the cable assembly being installed. Refer to detail D.

b. From this index, record the Location and Illustration numbers, then refer to them (L715 00 and L716 00 for this example only).

NOTE

Care must be exercised when installing cable assemblies. Consideration should be given to abrasion, vibration, clearance of moving parts and excessive flexing. Route cable assemblies so that they are mechanically and electrically sound and neat in appearance.

c. After studying these location illustrations, lay the cable out loosely in place.

d. Route the cable assembly along its intended path and secure it in place with the cable clamps.

e. If cable clamps are missing or have not been installed, clamp type may be determined by referring to the parts list with the location illustrations.



Avoid excessive tightening of cable, clamps and spot ties on coaxial (coax) cable. The dielectric of some coax cables is made of soft material and can be easily damaged. Route coax cable as directly as possible. Avoid unnecessary or sharp bends to preserve dielectric integrity.

f. Excess length can be compensated for by leaving some slack between the support clamps.

g. Tighten cable clamps.

h. Mate applicable connectors with their interconnects.

i. Terminate loose wires or cable assembly branches to splice areas, common connectors or terminal strips. Refer to A1-F18AC-WRM-010 through A1-F18AC-WRM-070 for the correct Work Package and Wire List, as applicable.

j. First find the cable assembly number in the Cable/Wiring Assembly Data Index (WP001 01), then refer to the applicable volume and work package. Refer to detail A.

k. Refer to the parts list of the referenced work package and note the reference designation and part number. Refer to detail C.

l. Refer to the Wire List of the referenced work package and locate the applicable reference designation and, if necessary, the repair work package required for the particular wire. Refer to detail G.

m. Procedures for sealing can be found in work packages 022 00 and 024 00.

n. Sealing compound procedures will be found in work package 022 00.

o. Test applicable system(s) to be sure of failure elimination and cable assembly integrity. Refer to A1-F18AC-()-200.

A1-F18AC-WRM-000				001 01	
CABLE/WIRING ASSEMBLY DATA INDEX (Continued)				Page 7	
ASSEMBLY IDENTIFICATION	CABLE ASSEMBLY TITLE	WORK PACKAGE NUMBER	A1-F18AC-WRM (VOLUME NUMBER)		
74A760201	CENTER FUSELAGE CABLE ASSEMBLY	602 01	-050		
74A760202	CENTER FUSELAGE CABLE ASSEMBLY	602 02	-050		
74A760203	CENTER FUSELAGE CABLE ASSEMBLY	602 03	-050		
74A760204	CENTER FUSELAGE CABLE ASSEMBLY	602 04	-050		
74A760205	CENTER FUSELAGE CABLE ASSEMBLY	602 05	-050		
74A760206	CENTER FUSELAGE CABLE ASSEMBLY	602 06	-050		
74A760209	CENTER FUSELAGE CABLE ASSEMBLY	602 09	-050		

DETAIL A

A1-F18AC-WRM-000

001 02

Page 45

REFERENCE DESIGNATION TO WORK PACKAGE INDEX

REFERENCE DESIGNATION	A1-F18AC-WRM (VOLUME NUMBER)	WORK PACKAGE NUMBER	MODEL	ASSEMBLY IDENTIFICATION
52P-R104	-050	602 09	F/TF-18A	74A760209
52P-N1188	-060	603 25	F-18A	74A760325
52P-P035	-040	582 03	F/TF-18A	74A756203
52P-P035	-070	701 15	F/TF-18A	74A770115
52P-P064A	-060	602 11	F/TF-18A	74A760211
52P-P064B	-080	602 31	F-18A	74A760231
52P-P103	-050	602 09	F/TF-18A	74A760209
52P-P105	-050	602 19	F/TF-18A	74A760219
52P-P110	-080	602 31	F/TF-18A	74A760231
52P-P111	-080	602 31	F/TF-18A	74A760231
52P-P117	-080	602 31	F/TF-18A	74A760231
52P-P119	-050	602 19	F-18A	74A760219
52P-P123	-080	602 48	F/TF-18A	74A760248
52P-P125	-080	602 48	F-18A	74A760248
52P-P157	-040			
52P-P157	-070			
52P-P157	-070			
52P-P163	-080			
52P-P163	-080			
52P-P164	-060			
52P-P165	-060			
52P-P165	-080			
52P-P313	-050			
52P-R036	-040			
52P-R036	-070			
52P-R065	-050			
52P-R068A	-050			
52P-R068B	-080			
52P-R102	-050			
52P-R104	-050			
52P-R113	-080			
52P-R114	-080			
52P-R116	-060			
52P-R120	-050			

DETAIL B

A1-F18AC-WRM-050				602 09			
				Page 3			
PARTS LIST							
REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION (CAGE)	QTY	USE ON CODE	SM&R CODE	CLK DEG	NOTE
4P-P021	74A760209-8EDA	CABLE ASSY (78301)	1	-	-	-	
	D38999-26KC35SN	PLUG (78301)	1	-	-	-	
	74A895602-2260	BAND, MARKER (08324)	1	MDQZZ	PAQZZ	200	
	G7925-13	ADAPTER, CABLE (07418)	1	PAQZZ			
4P-R021	S1844-87R30SD	(78301 SPEC ST5M1501E13)	1	PAQZZ			
	D38999-26KB98SN	ADAPTER, CABLE (78301 SPEC ST5M1501E13)	1	-	-	-	
	74A895602-2477	PLUG (78301)	1	MDQZZ	PAQZZ		
	G7924-13	BAND, MARKER (08324)	1	PAQZZ			
4P-R022	S1844-87A30SD	(78301 SPEC ST5M1500E13)	1	PAQZZ			
	900-513-4012-10	ADAPTER, CABLE (31481)	1	PAQZZ			
	S2163-8567-30S	(78301 SPEC ST5M1500E13)	1	PAQZZ			
	D38999-26KB98SN	ADAPTER, CABLE (78301 SPEC 5M2036-1113)	1	-	-	-	
22P-P030	74A895602-2255	PLUG (78301)	1	MDQZZ	PAQZZ	270	
	G7924-13	BAND, MARKER (08324)	1	PAQZZ			
	S1844-87A30SD	ADAPTER, CABLE (07418)	1	PAQZZ			
	900-513-4012-10	(78301 SPEC ST5M1500E13)	1	PAQZZ			
	S2163-8567-30S	ADAPTER, CABLE (31481)	1	PAQZZ			
	D38999-24KG35SN	(78301 SPEC ST5M1500E13)	1	PAQZZ			
	74A895602-2259	ADAPTER, CABLE (07418)	1	PAQZZ			
	031-1147-010	(78301 SPEC 5M2036-1113)	1	-	-	-	
	031-1147-011	RECEPTACLE (78301)	1	MDQZZ	PAQZZ		
	G7925-21	BAND, MARKER (08324)	1	PAQZZ			
		CONTACT, ELECTRICAL (71488)	1	PAQZZ			
		(78301 SPEC ST5M1336-225 CR1)	1	PAQZZ			
		ADAPTER, CABLE (08324)	1	PAQZZ			
		(78301 SPEC ST5M1501E21)	1	PAQZZ			

Figure 1. Installation and Removal of Cable Assemblies (Sheet 1)

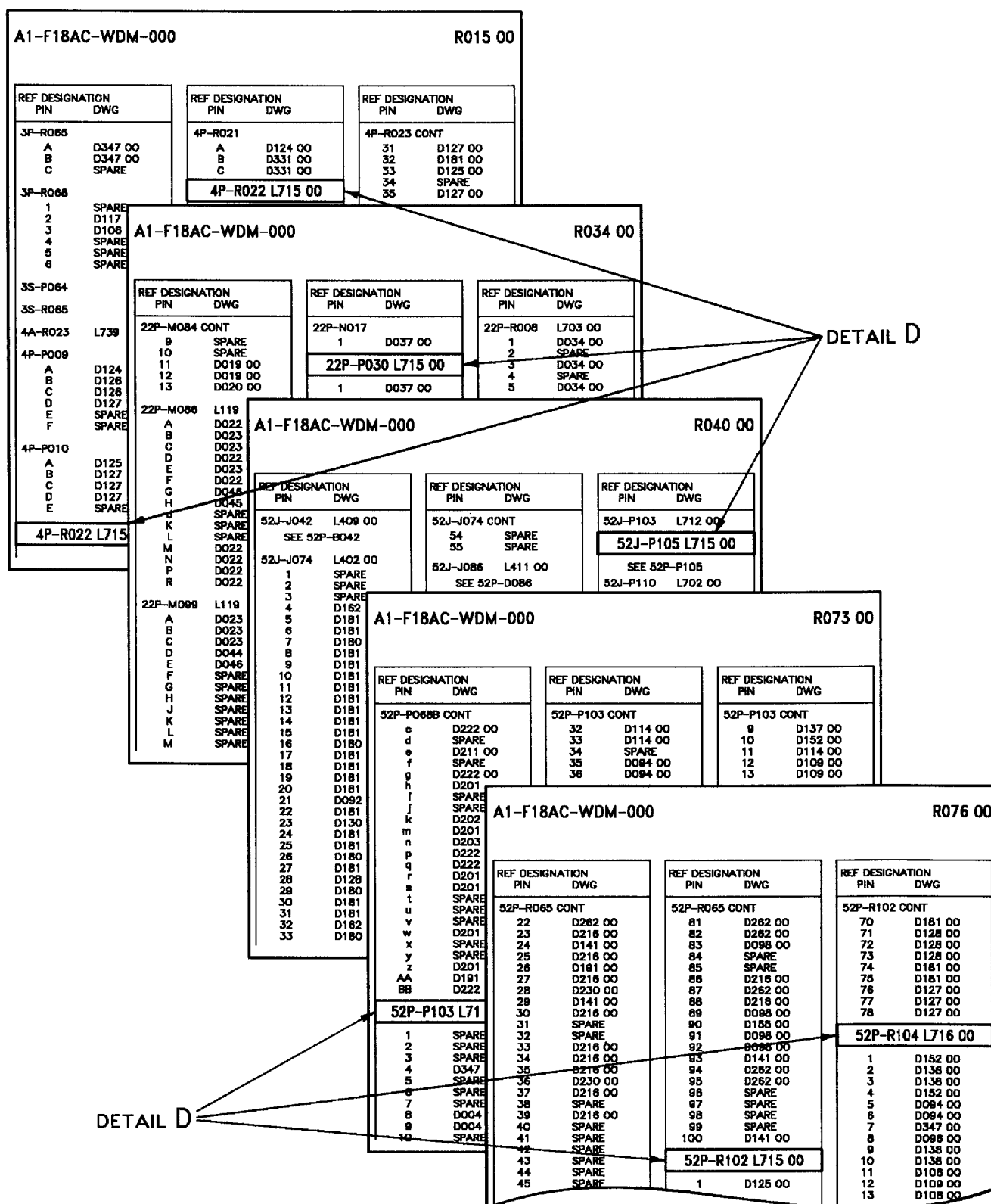
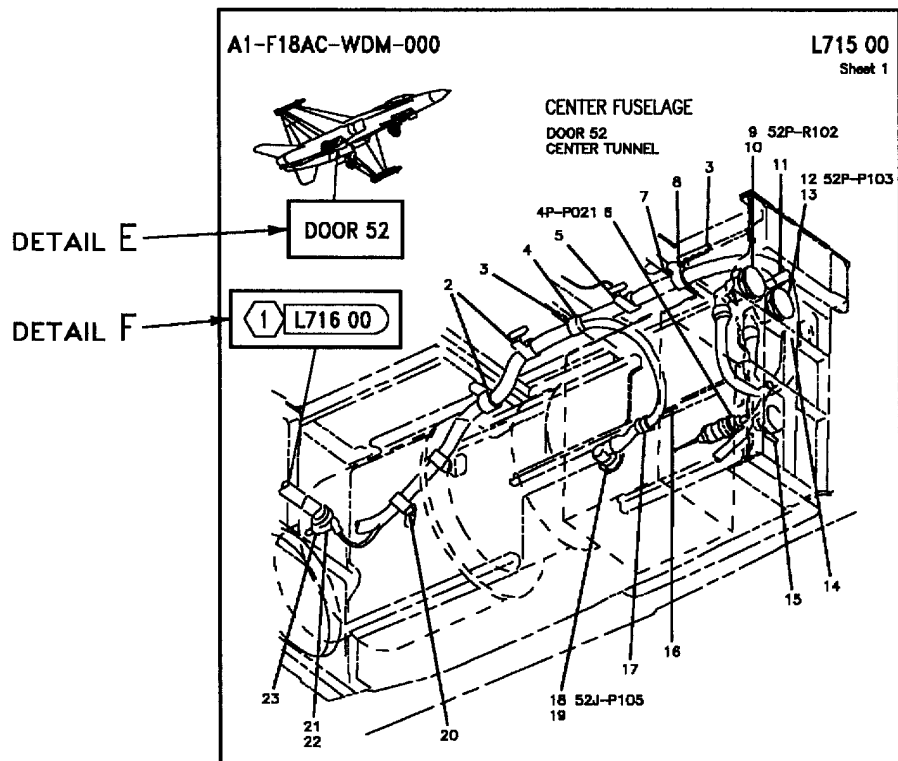


Figure 1. Installation and Removal of Cable Assemblies (Sheet 2)



A1-F18AC-WDM-000 L715 00
SHEET 3

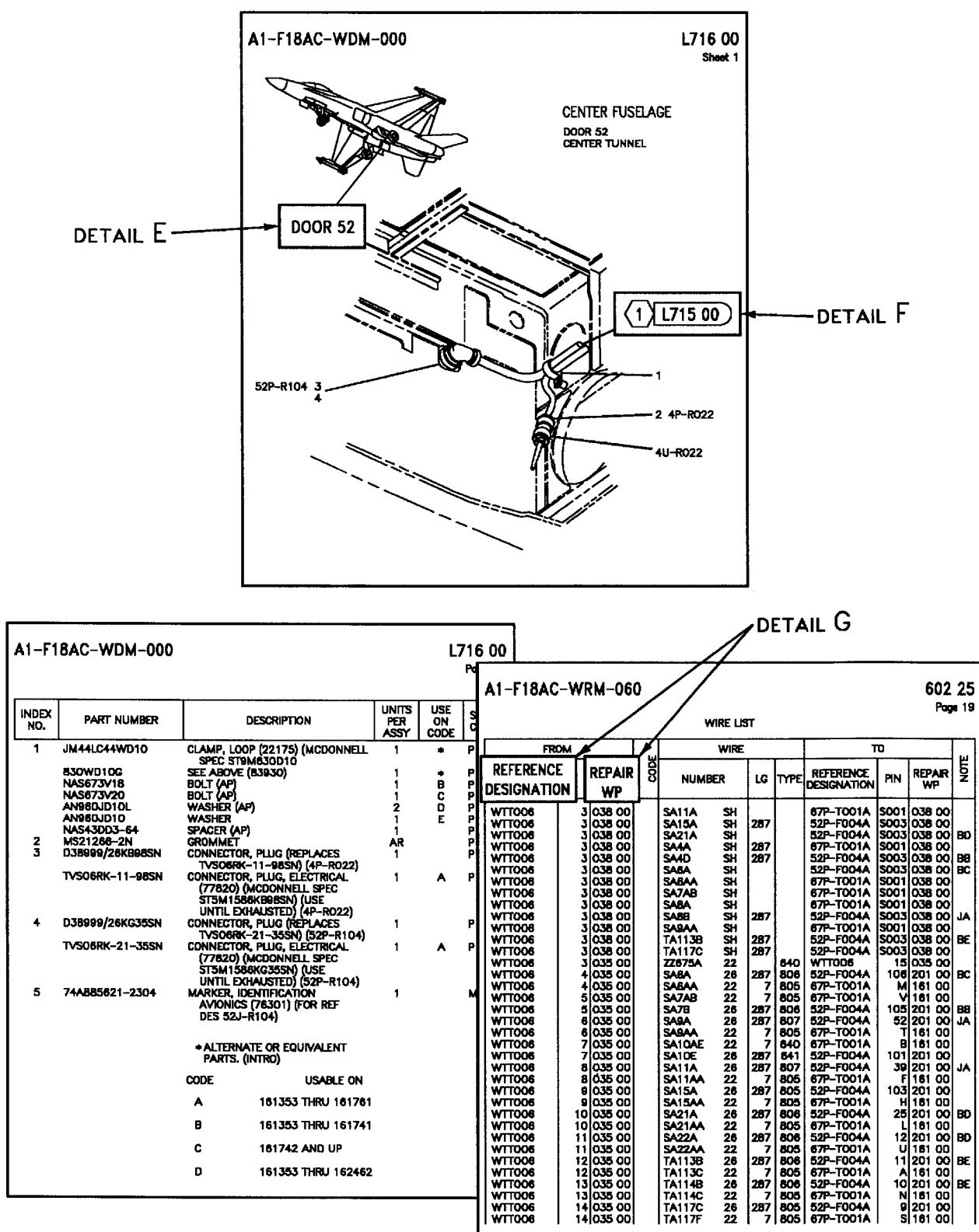
INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USE ON CODE	SM&R CODE
1	JM44LC44WD10	CLAMP, LOOP (22175) (MCDONNELL SPEC ST9M630D10)	1	C*	P
	830WD10G	SEE ABOVE (83930)	1	C*	P
	NAS673V2	BOLT (AP)	1	C	P
	AN860JD10L	WASHER (AP)	1	C	P
	A11144-4-3	NUT, CLIP (AP) (72962) (MCDONNELL SPEC ST3M523C3M1)	1	C	P
2	JM44LC44WD10	CLAMP, LOOP (22175) (MCDONNELL SPEC ST9M630D10)	2	C*	P
	830WD10G	SEE ABOVE (83930)	2	C*	P
	NAS673V2	BOLT (AP)	1	C	P
	AN860JD10L	WASHER (AP)	1	C	P
3	MS21286-1N	GROMMET	AR	D	P
4	MS25281-10	CLAMP	1	B	P
	MS25281-13	CLAMP	1	C	P
	NAS673V2	BOLT (AP)	1	C	P
	AN860JD10L	WASHER (AP)	2	C	P
5	JM44LC33WD12	CLAMP, LOOP (22175) (MCDONNELL SPEC ST9M630D12)	1	C*	P
	830WD12G	SEE ABOVE (83930)	1	C*	P
	NAS673V2	BOLT (AP)	1	C	P
	AN860JD10L	WASHER (AP)	1	C	P
6	D38999/26K8985N	CONNECTOR, PLUG (REPLACES TVSO6RK-11-88SN) (4P-P021)	1	A	P
	TVSO6RK-11-88SN	CONNECTOR, PLUG, ELECTRICAL (77820) (MCDONNELL SPEC ST5M1566K35SN) (USE UNTIL EXHAUSTED) (4P-P021)	1	A	P
7	MS21286-2N	GROMMET	AR	F	P
8	MS25281-10	CLAMP	1	B	P
	MS25281-13	CLAMP	1	C	P
	NAS673V2	BOLT (AP)	1	H	P
	NAS673V4	BOLT (AP)	1	G	P
	AN860JD10L	WASHER (AP)	1	G	P
	AN860JD10	WASHER (AP)	1	G	P
9	D38999/26K135PN	CONNECTOR, PLUG (REPLACES TVSO6RK-23-35PN) (52P-R102)	1	A	P

A1-F18AC-WDM-000 L715 00
SHEET 3

INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USE ON CODE	SM&R CODE
	830WD14G	SEE ABOVE (83930)	1	C*	PAOZZ
	NAS673V2	BOLT (AP)	1	C	PAOZZ
	AN960JD10L	WASHER (AP)	1	C	PAOZZ
16	74A885621-2408	MARKER, IDENTIFICATION AVIONICS (78301) (FOR REF DES 2J-P015)	1		MDOZZ
17	MS21266-2N	GROMMET	AR		PAOZZ
18	JM44LC44WD8	CLAMP, LOOP (22175) (MCDONNELL SPEC ST9M630D8)	1	*	PAOZZ
	830WD8G	SEE ABOVE (83930)	1	*	PAOZZ
	NAS673V2	BOLT (AP)	1		PAOZZ
	AN960JD10L	WASHER (AP)	1		PAOZZ
19	D38999/24KG35SN	CONNECTOR, PLUG (REPLACES TVSO7RK-21-35SN) (52J-P105)	1		PAOZZ
	TVSO7RK-21-35SN	CONNECTOR, RECEPTACLE ELECTRICAL (77820) (MCDONNELL SPEC ST5M1614KG36SN) (USE UNTIL EXHAUSTED) (52J-P105)	1	A	PAOZZ
20	74A885621-2305	MARKER, IDENTIFICATION AVIONICS (78301) (FOR REF DES 52J-P105)	1		MDOZZ
21	JM44LC44WD10	CLAMP, LOOP (22175) (MCDONNELL SPEC ST9M630D10)	1	E*	PAOZZ
	830WD10G	SEE ABOVE (83930)	1	E*	PAOZZ
	NAS673V2	BOLT (AP)	1	E	PAOZZ
	AN960JD10L	WASHER (AP)	1	E	PAOZZ
	A11144-4-3	NUT, CLIP (AP) (72962) (MCDONNELL SPEC ST3M523C3M1)	1	E	PAOZZ
22	D38999/26K35SN	CONNECTOR, PLUG (REPLACES TVSO6RK-13-35SN) (22P-P030)	1		PAOZZ
	TVSO6RK-13-35SN	CONNECTOR, PLUG, ELECTRICAL (77820) (MCDONNELL SPEC ST5M1566K35SN) (USE UNTIL EXHAUSTED) (22P-P030)	1	A	PAOZZ
23	74A885621-2238	MARKER, IDENTIFICATION AVIONICS (78301) (FOR REF	1		MDOZZ

F/A-18-WRM-(132-7)02-CAT1

Figure 1. Installation and Removal of Cable Assemblies (Sheet 3)



ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****SEALING OF ELECTRICAL CABLE ASSEMBLIES**

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Electrical Bonding, Sealing and Electromagnetic Compatibility (EMC)	
Protection	WP037 00

Alphabetical Index

Subject	Page No.
EMI Sealing Procedures	3
Introduction	1
Materials Required	2
Procedure	2
Sealing EMI Wire Bundles, Figure 2	5
Sealing Wire Bundles, Figure 1	4
Support Equipment Required	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.**Support Equipment Required**

2. Sealing the airframe against foreign object damage while installing electrical cable assemblies is described in this work package.

Part Number or Type Designation	Nomenclature
Model 250-12	Sealant Gun

Materials Required

Specification or Part Number

Nomenclature

0-T-620	1,1,1-Trichloroethylene Solvent
-	Masking Tape
GGD226 TYPE 1	Wooden Tongue Depressor
CCC-C-440 TYPE 1 CLASS 1	Cheesecloth, Commercial
No. 10/20	Ground Cork
MILS83430CLASSA-4	Sealing Compound
MILS83430CLASSB-1/4	Sealing Compound

3. PROCEDURE.

WARNING

Trichloroethylene is toxic to skin, eyes, and respiratory tract. Skin and eye protection required. Avoid repeated or prolonged contact. Good general ventilation is normally enough.

a. Clean surfaces to be sealed using trichloroethylene. Apply trichloroethylene with clean, moistened cloth to applicable surfaces. Wipe dry before trichloroethylene evaporates.

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

b. Mixing of sealers should be accomplished using the instructions furnished with the sealing compound.

c. Mask areas to be protected from sealants.

d. Remove cable ties (plastic tie-down straps) within 6 inches of the area to be sealed.

e. Where cable clamps restrict the flow of sealants in and around cable assemblies or wires, loosen clamps so that sealant will flow under clamps.

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

f. Inject sealant in and around cable assemblies and under cable clamps (figure 1, detail A).

g. Tighten cable clamps.

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

CAUTION

When ground cork is used, apply a heavy coat of MILS83430CLASSA-4 sealing compound over fillet to prevent the ground cork from absorbing fuel or moisture.

NOTE

MILS83430CLASSB-1/4 sealing compound may be combined in a ratio of 1 part sealing compound to 1.5 parts ground cork to fill voids exceeding 1/2 inch. Voids to be filled with this mixture must exist between cable assemblies and conduit or cable assemblies and bulkheads.

h. Apply a fillet of sealant around the cable assembly on both sides of the bulkhead when accessible (details A and B).

i. Remove masking tape from protected areas and smooth sealant around clamps with a wooden tongue depressor.

4. EMI SEALING PROCEDURES.

a. Refer to paragraph 3a for cleaning procedure.

b. Follow special instructions in A1-F18AC-LMM-000, when assembling EMI shielding and boots.

c. Mask areas to be protected from sealants.

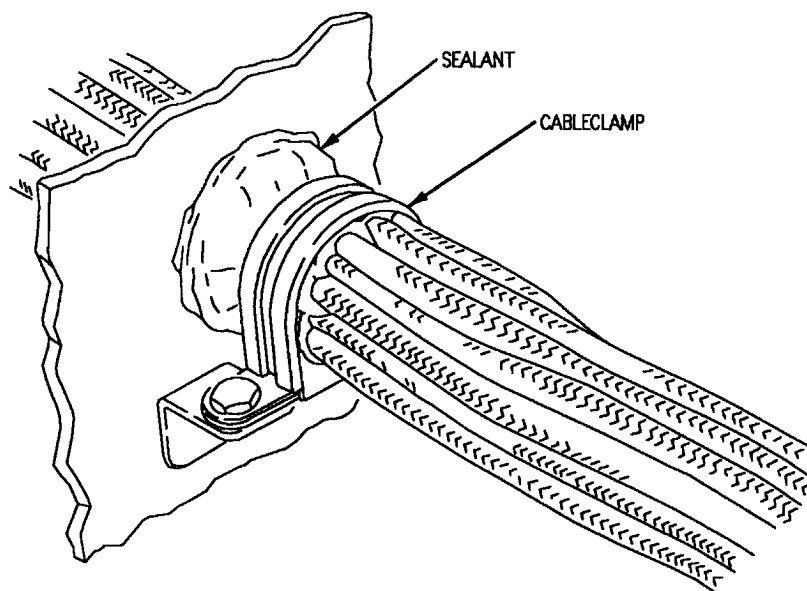
WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

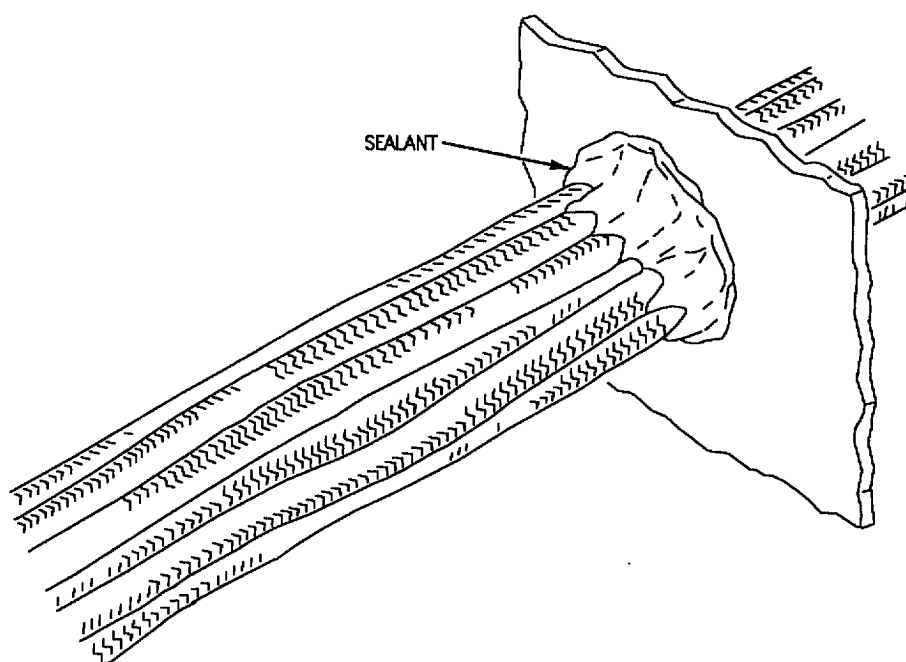
d. Inject sealant into wire mesh buildup at EMI boot areas.

e. Fashion sealant to a smooth surface using wooden tongue depressor (figure 2, detail A).

f. Remove masking tape and clean excess or unwanted sealant from area by use of a clean dry wiper.

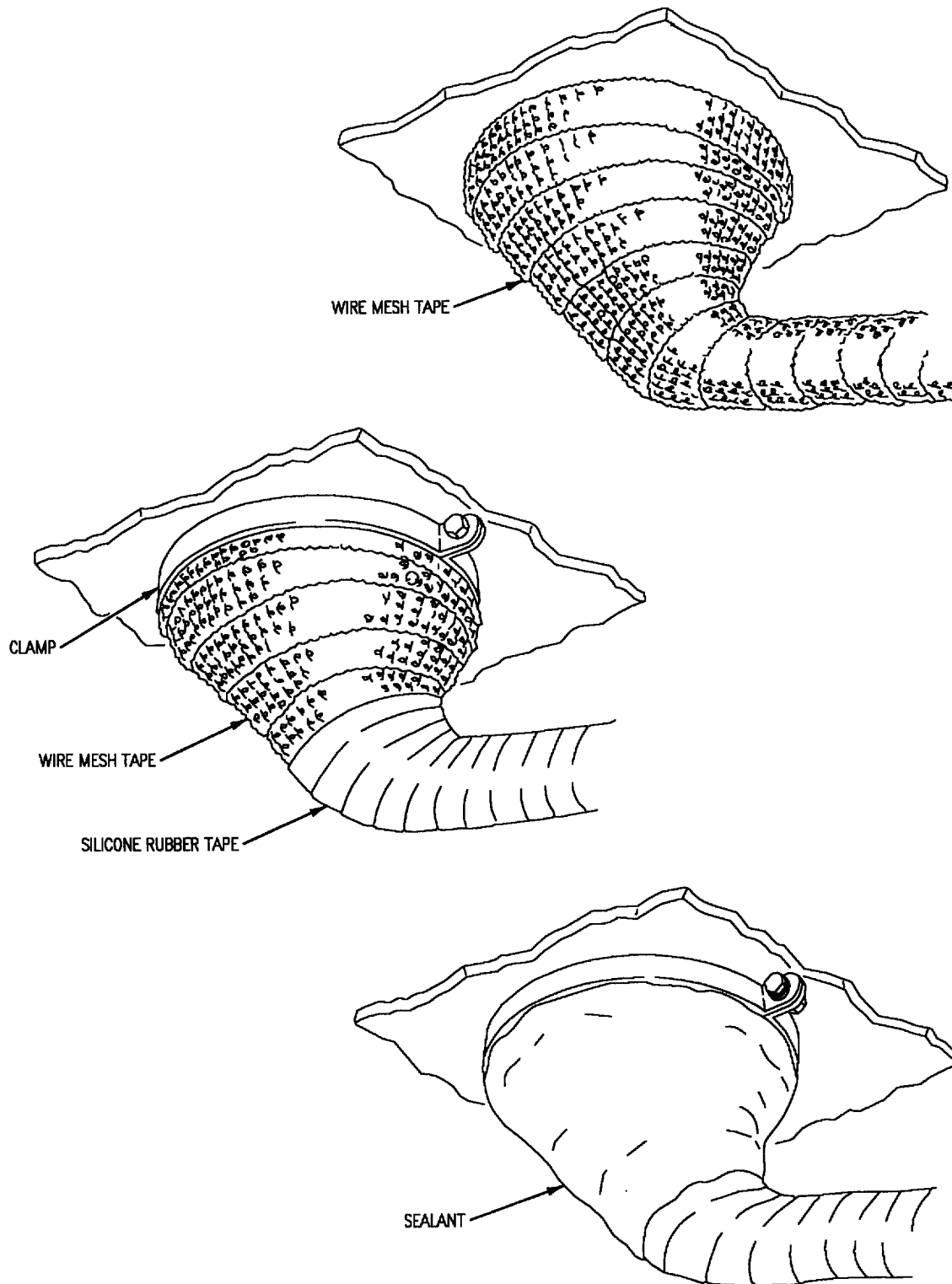


A



B

Figure 1. Sealing Wire Bundles



A

Figure 2. Sealing EMI Wire Bundles

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

SEALING OF ELECTRICAL COMPONENTS

Reference Material

None

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Support Equipment Required	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.

Materials Required

2. Sealing of electrical components against foreign object damage and corrosion prevention is described in this work package. Sealants meeting the requirements for MIL-A-46146 will be used.

Specification or
Part Number

Nomenclature

Support Equipment Required

Part Number or
Type Designation

Nomenclature

MILA46146TY3
MMS409
MS122

Adhesive Sealant
Cleaning Compound
Fluorocarbon Lubricant

Model 250-12

Sealant Gun

3. PROCEDURE.

- a. Inspect all connections for correct attachment.

WARNING

Cleaning compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- b. Clean all surface areas to be sealed with cleaning compound.

WARNING

Adhesive is toxic to skin, eyes, and respiratory tract. Skin and eye protection required. Avoid repeated or prolonged contact. Good general ventilation normally adequate.

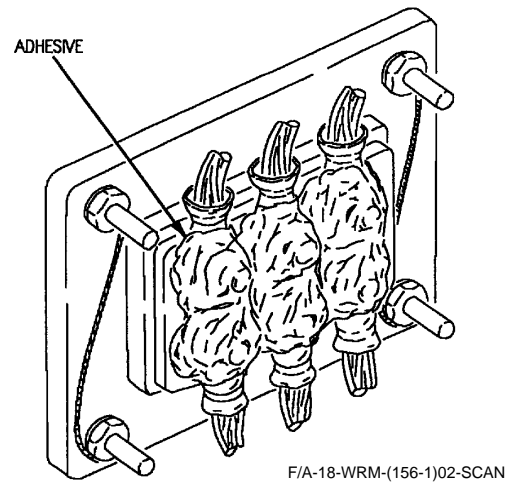


Figure 1. Sealing Electrical Components

- c. Apply a thin coat (1/8-inch thick) of adhesive over the terminations.

CAUTION

To prevent corrosion due to condensation, care should be taken to eliminate voids and air entrapments.

- d. When filling cavities avoid air entrapment by using a fine pointed nozzle and start filling from the bottom up.
- e. Allow adhesive to cure for 72 hours.
- f. Handling of the assemblies can be done within 2 to 4 hours after which the surface area of the adhesive should be tack free.
- g. When adhesive will come into contact with a removable cover, apply a fluorocarbon lubricant (MS122 or equivalent).

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

REPAIR OF SINGLE CONDUCTOR NON-SHIELDED WIRE

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides general repair procedures for single conductor non-shielded wiring under a harness braid.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification

or Part Number

Nomenclature

MIL-I-46852, TYPE 2,
1.0000IN.BLK

Insulation Tape

MIL-I-23594, TYPE 2,
1/2IN.WIDE

Insulation Tape


MIL-T-43435 TYPE-2
SIZE-3 FINISH-C

Lacing Tape

 See Table 1

Splice, Conductor

NOTE

 Size required to be determined by technician.

a. Remove at least 3 inches of harness cover from each side of damaged wire(s).

b. Wrap ends of cut harness cover with several turns of insulation tape (MIL-I-23594, TYPE 2, 1/2In. WIDE).

NOTE

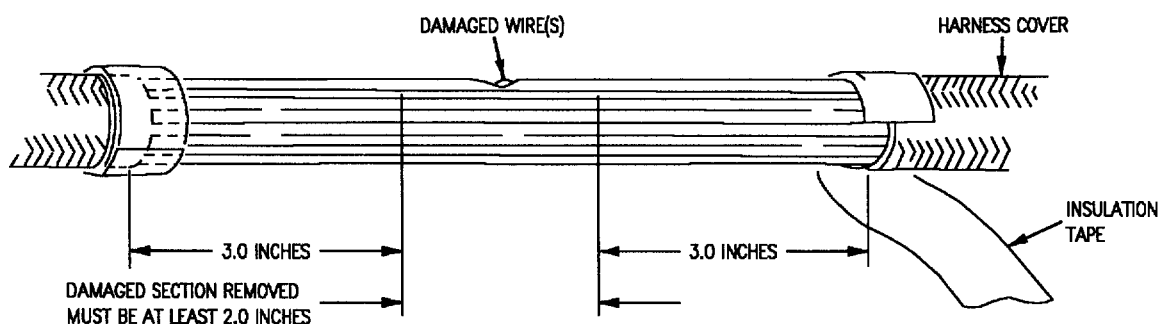
Splices must be staggered when more than one wire is to be repaired to prevent bundle enlargement.

c. Remove at least 2 inches of damaged wire(s), as applicable, so that only good wire remains.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

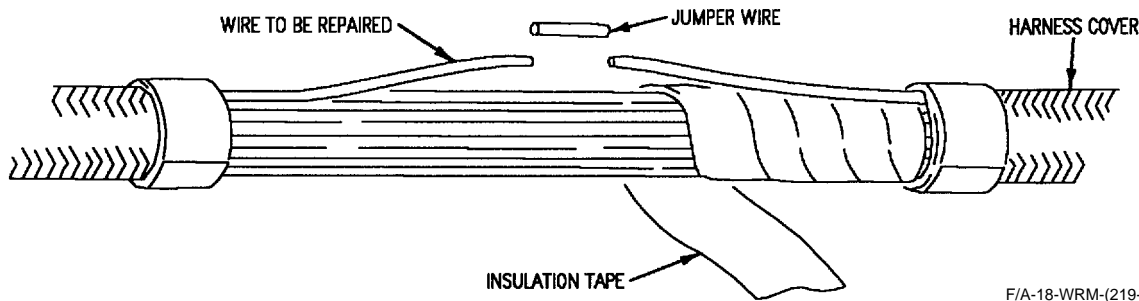


F/A-18-WRM-(219-1)02-SCAN

Figure 1. Removal of Harness Cover

d. Separate damaged wire(s) from undamaged wires. Wrap undamaged wires with insulation tape (MIL-I-23594,TYPE 2, 1/2In. WIDE) using a 50 per-cent over wrap as close to harness cover as possible.

e. Refer to Wire Type List (WP004 00) and deter-mine jumper wire size required. Cut jumper wire so that it will be same length as wire which was re-moved.



F/A-18-WRM-(219-2)02-SCAN

Figure 2. Installing Jumper Wire

f. Based on wire(s) size to be spliced, select ap-plicable conductor splice part number from table 1.

Table 1. Conductor Splices

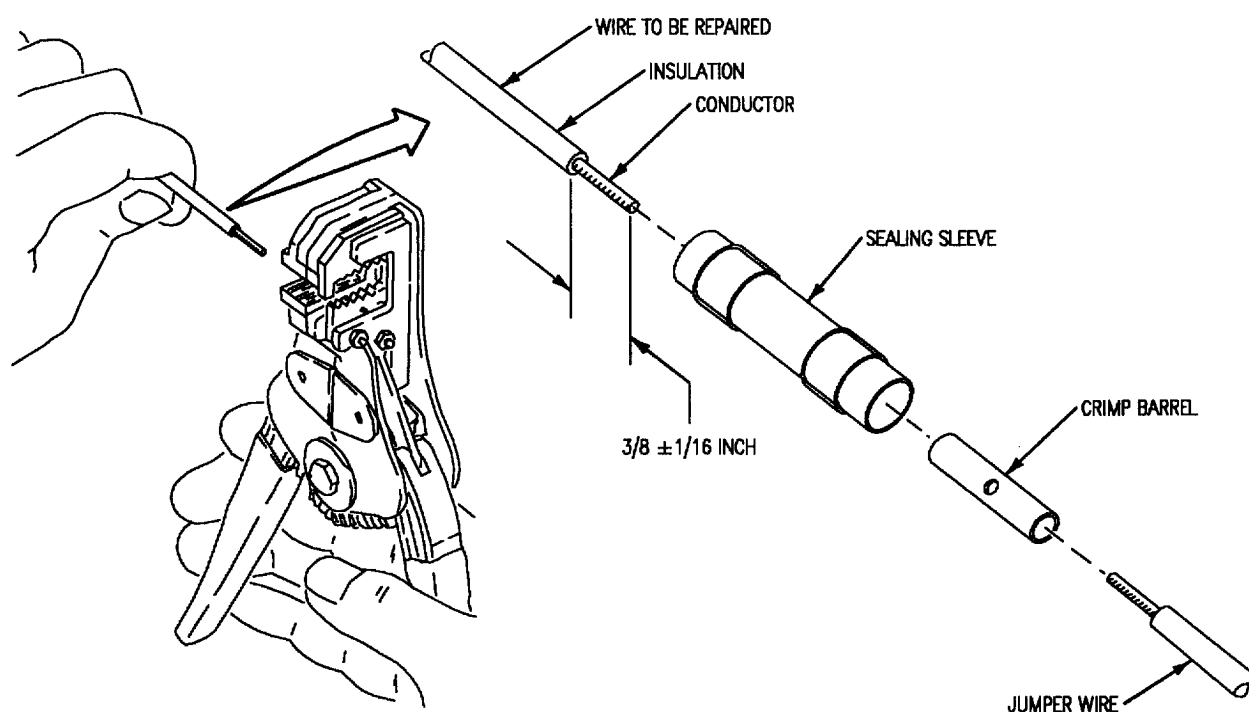
Part Number	Color Stripe	Wire Sizes AWG	Maximum Wire Insulation Size (Inch)
D-436-36	Red	20, 22, 24	3/32
D-436-37	Blue	16, 18, 20	7/64
D-436-38	Yellow	12, 14, 16	3/16

NOTE

If more than one of the damaged wires were severed, mating wires may not be readily apparent since wires of compact bundles are not identified under the braid. To determine mating wires, make a continuity check of severed wires, using applicable cable/wiring assembly data work package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

g. Using 45-1633 wire strippers supplied with wire and connector repair set, strip insulation from wire to be repaired and jumper wire.

h. Slide sealing sleeve over one end of wire to be repaired and install crimp barrel on end of wire.

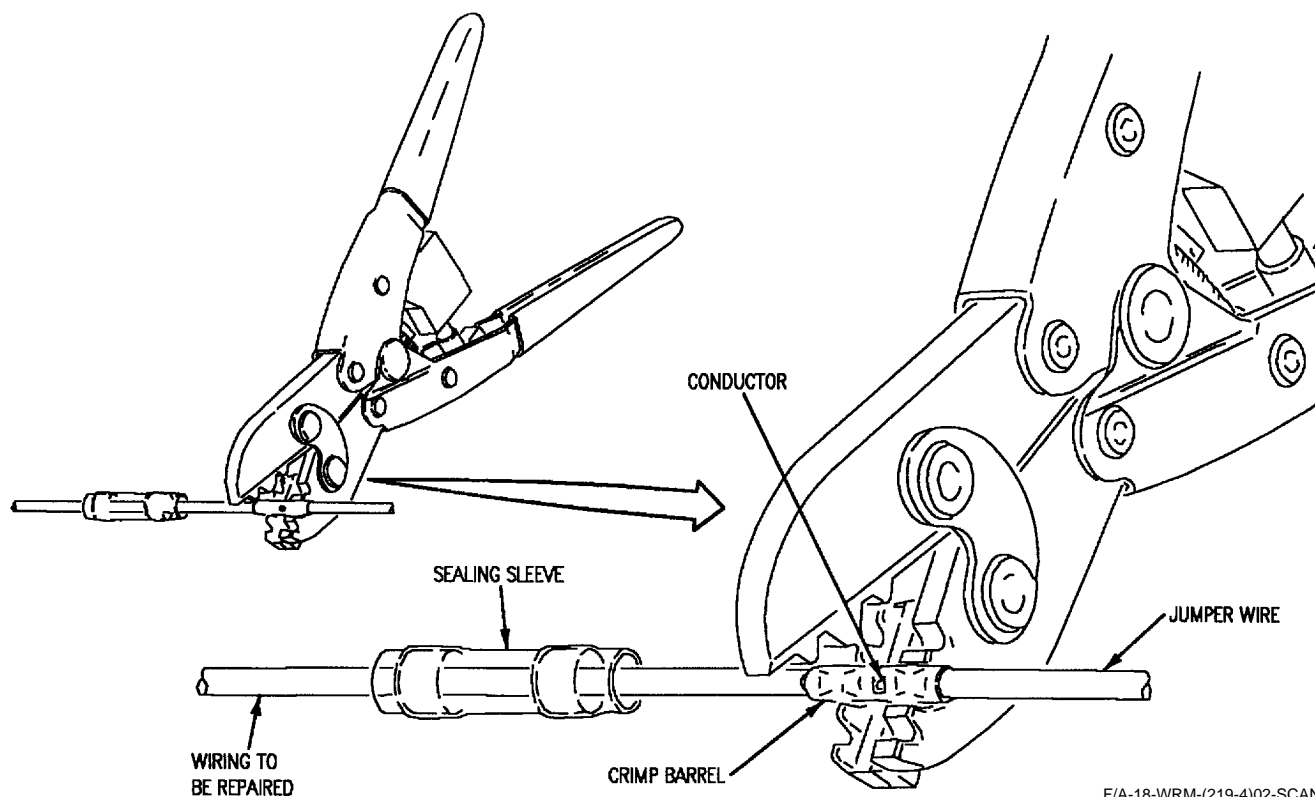


F/A-18-WRM-(219-3)02-SCAN

Figure 3. Stripping Wire and Jumper Wire

i. Make sure conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool supplied with wire and connector repair set.

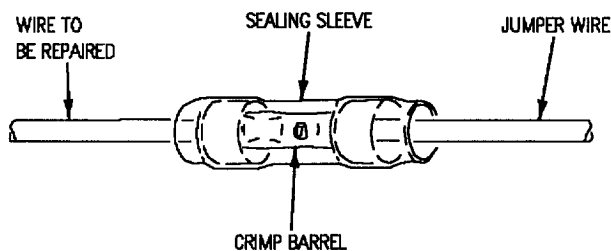
j. Crimp jumper wire in crimp barrel using GMT 232 crimping tool.



F/A-18-WRM-(219-4)02-SCAN

Figure 4. Crimping Jumper Wire

k. Center sealing sleeve over crimp barrel.



F/A-18-WRM-(219-5)02-SCAN

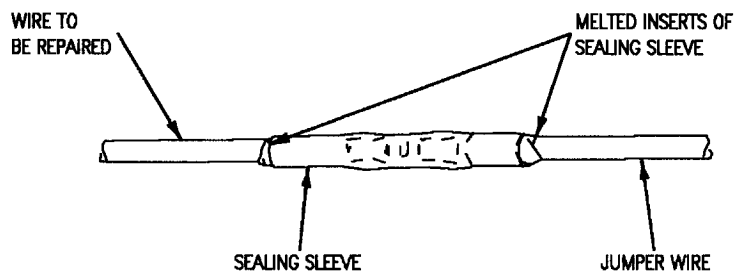
Figure 5. Centering Sealing Sleeve

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

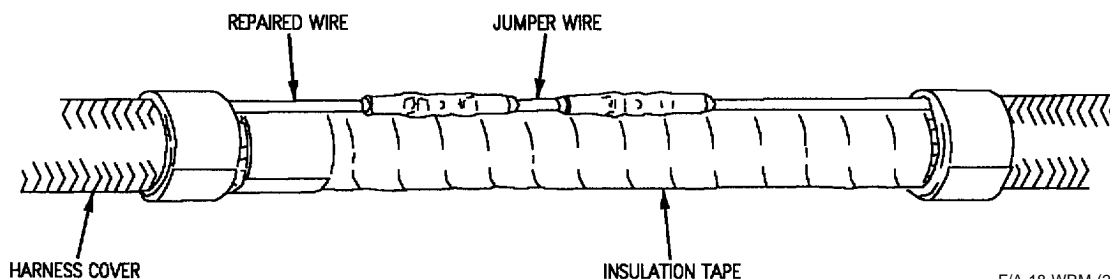
l. Using heat tool, apply heat starting at one end of sealing sleeve until melted insert flows from end of sleeve then move along sleeve until insert at opposite end of sleeve melts and flows along wire.



F/A-18-WRM-(219-6)02-SCAN

Figure 6. Sealing Sleeve

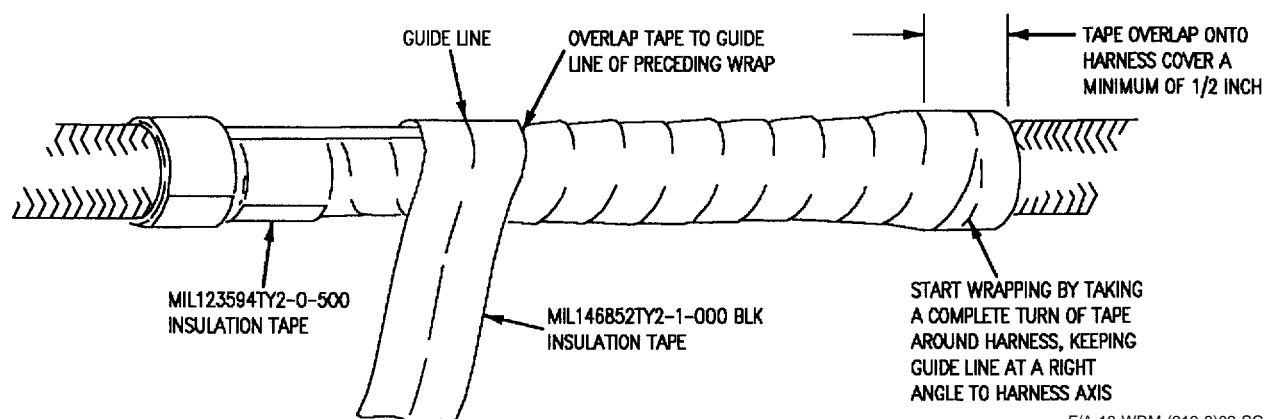
m. Repeat paragraphs 3.g. through 3.1. to complete splice repair of open end of jumper wire to original wire so that completed splice repair appears as below.



F/A-18-WRM-(219-7)02-SCAN

Figure 7. Completed Splice Repair

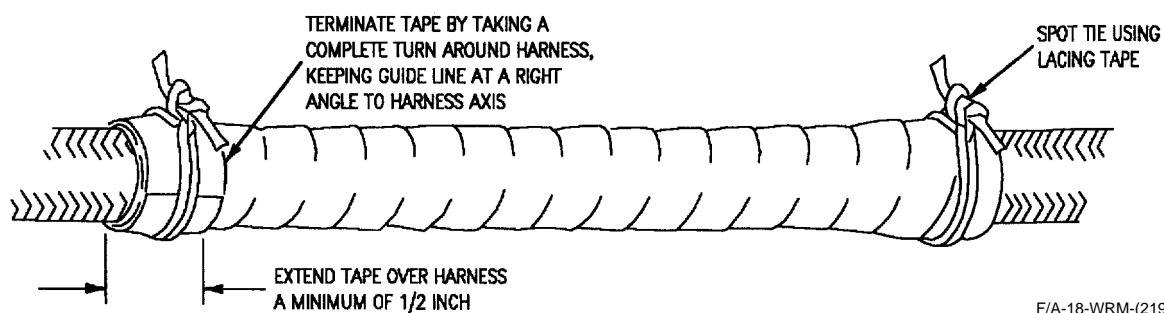
n. Completely wrap exposed repair area, using insulation tape (MIL-I-46852, TYPE 2, 1.000IN.BLK) with a 50% over wrap.



F/A-18-WRM-(219-8)02-SCAN

Figure 8. Wrapping Exposed Repair Area

o. Secure insulation tape with a spot tie using lacing tape.



F/A-18-WRM-(219-9)02-SCAN

Figure 9. Spot Tie

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

REPAIR OF SINGLE CONDUCTOR SHIELDED CABLE

This WP supersedes WP 028 00, dated 1 October 1993.

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Stripping Cable and Jumper Wire, Figure 2	3
Support Equipment Required	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides general repair procedures for single conductor shielded wire.



Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3


Materials Required

Specification or
Part Number

Nomenclature

D-609-XX  XX	Conductor Splice
M23053/4-XXX-0	Insulation Sleeve
NAS1745-XX  XX	Solder Sleeve
RNF100 1-8BLACK	Insulation Sleeve
8660 (3/16-Inch)	Tubular Shield Braid
8661 (5/16-Inch)	Tubular Shield Braid
8664 (5/32-Inch)	Tubular Shield Braid
8674 (1/16-Inch)	Tubular Shield Braid

NOTE

 Size required to be determined by technician.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Remove at least 4 inches of damaged wire so that only good wire remains. See figure 1.

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

b. Refer to Wire Type List (WP004 00) and determine jumper wire size required. Cut jumper wire so that it will be same length as wire which was removed.

c. Using wire strippers identified in WP004 00, strip cable and jumper wire as shown in figure 2.

d. Comb out braided shield and fold back over wire jacket.

NOTE

Use Wire Type List (WP004 00) to determine size of materials required to complete wire repair.

e. Slide insulation sleeve (RNF100 1-8BLACK), tubular shield braid, solder sleeve, insulation sleeve (M23053/4-XXX-0) and conductor splice over end of wire to be repaired and jumper wire. (See figure 3 and table 1).

NOTE

When necessary to determine mating wires between wire being repaired and jumper wire, a continuity test must be made of severed wires, using applicable cable/wiring assembly data work package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

f. Insert wire to be repaired and jumper wire into conductor splice and crimp using GMT 232 crimping tool. See figure 4.

WARNING

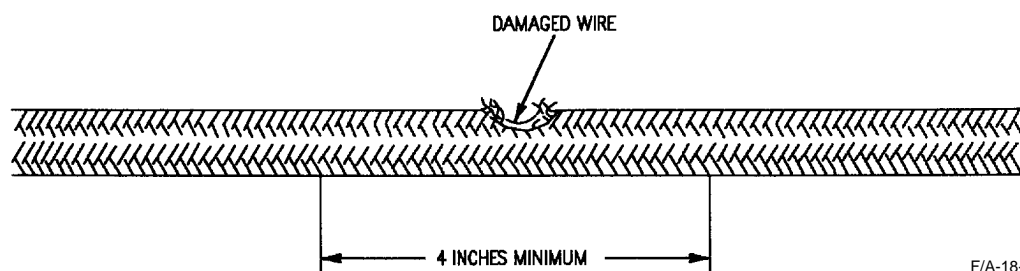
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

g. Slide insulation sleeve (M23053/4-XXX-0) over crimped conductor splice and shrink insulation sleeve using heat tool. See figure 5.

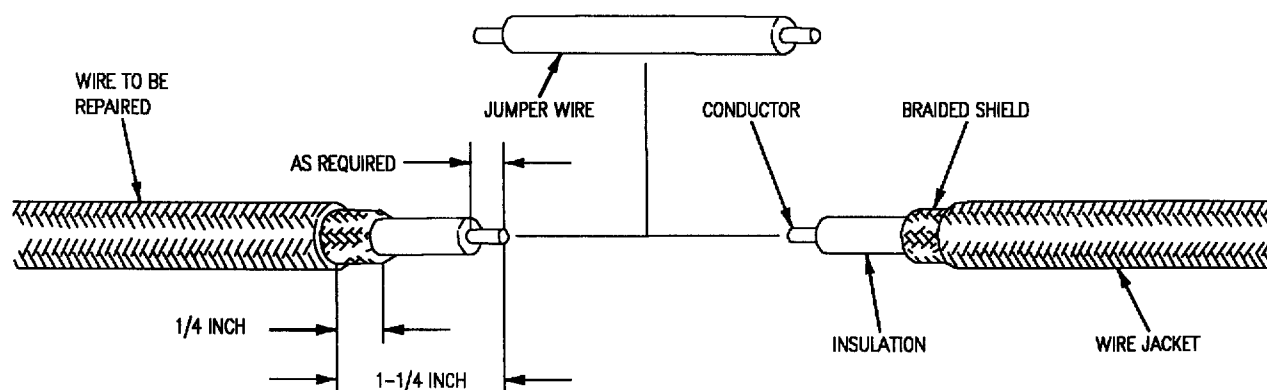
h. Repeat paragraphs 3c through 3g to complete splice repair of open end of jumper wire to wire to be repaired, then go to paragraph 3i.

i. Slide tubular shield braid over completed splice repair. While holding tubular shield braid in place comb out tubular shield braid and mesh strands with shield of wire being repaired. See figure 6.



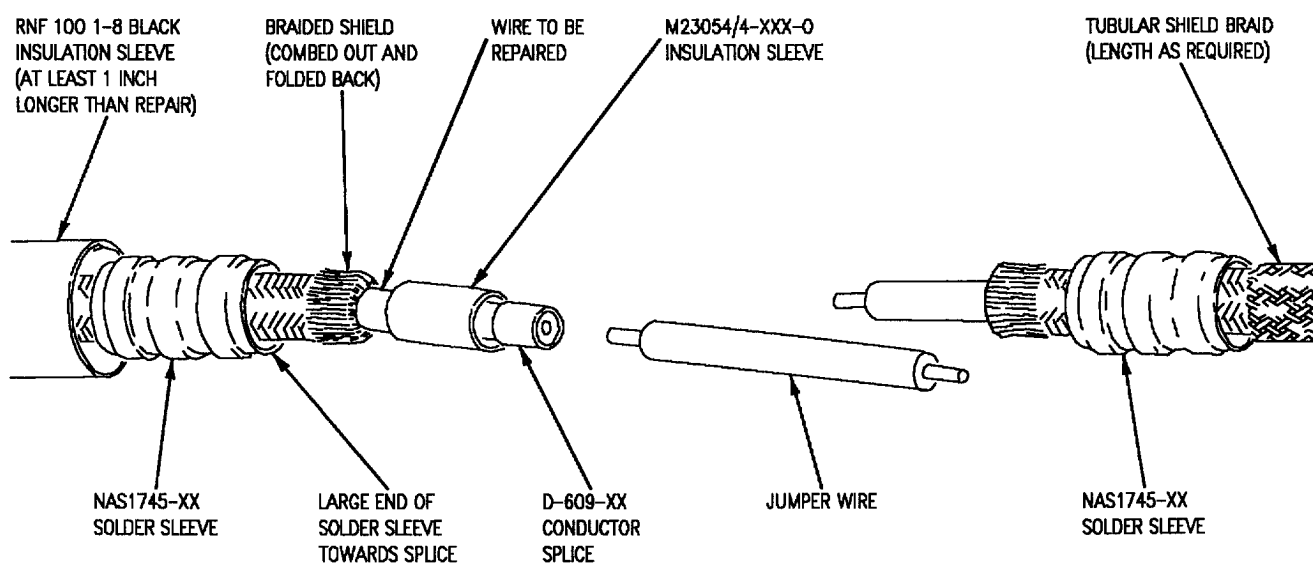
F/A-18-WRM-(240-1)02-SCAN

Figure 1. Removal of Damaged Wire



F/A-18-WRM-(240-2)02-SCAN

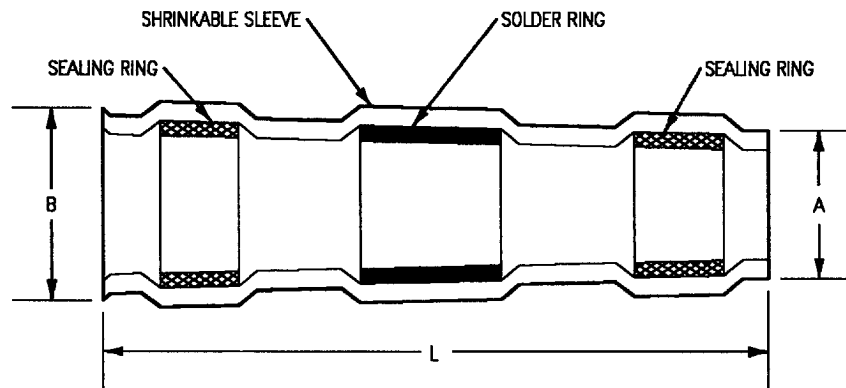
Figure 2. Stripping Cable and Jumper Wire



F/A-18-WRM-(240-3)02-SCAN

Figure 3. Installation of Conductor Splice

Table 1. M83519/1 and NAS1745 Solder Sleeve



F/A-18-WRM-(370-1)01-CAT1

Part Number	A Diameter Before Shrinking Minimum (Inch)	B Diameter Before Shrinking Minimum (Inch)	L Length (Inch)
NAS1745-1 M83519/1-1	5/64	3/32	5/8
NAS1745-2 M83519/1-2	7/64	1/8	5/8
NAS1745-3 M83519/1-3	3/16	13/64	5/8
NAS1745-4 M83519/1-5	1/4	15/64	3/4
NAS1745-5	5/64	3/32	5/8
NAS1745-13 M83519/1-1	5/64	3/32	5/8
NAS1745-14 M83519/1-2	7/64	1/8	5/8
NAS1745-15 M83519/1-3	3/16	13/64	5/8
NAS1745-16 M83519/1-5	1/4	15/64	3/4
NAS1745-17 M83519/1-4	15/64	1/4	3/4
NAS1745-18	7/16	15/32	1-7/64
NAS1745-25	33/64	35/64	1-7/64
Color - Transparent blue. Use HT-900 heat tool to shrink sleeve.			

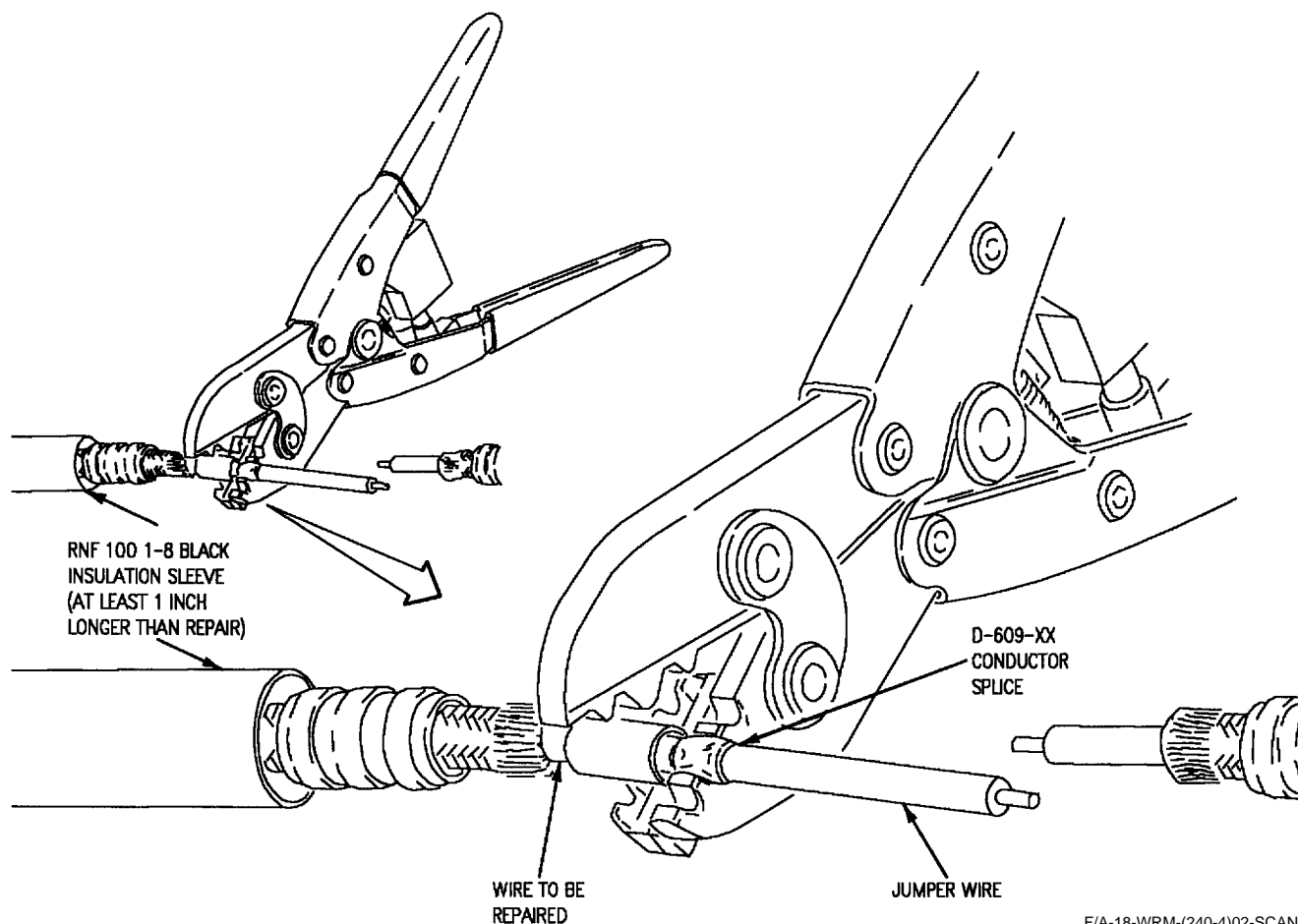


Figure 4. Crimping Conductor Splice

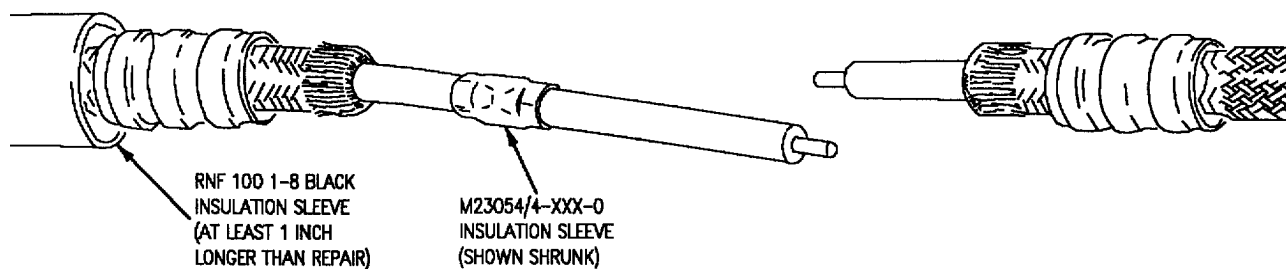


Figure 5. Shrinking Insulation Sleeve

j. Slide solder sleeves over ends of tubular shield braid.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

k. Shrink solder sleeves using heat tool. See figure

7.

l. Slide insulation sleeve (RNF100 1-8BLACK) over splice repair. Insulation sleeve should extend at least 1/2-inch past ends of solder sleeves.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

m. Shrink insulation sleeve (RNF100 1-8BLACK) using heat tool so completed repair appears as below. See figure 8.

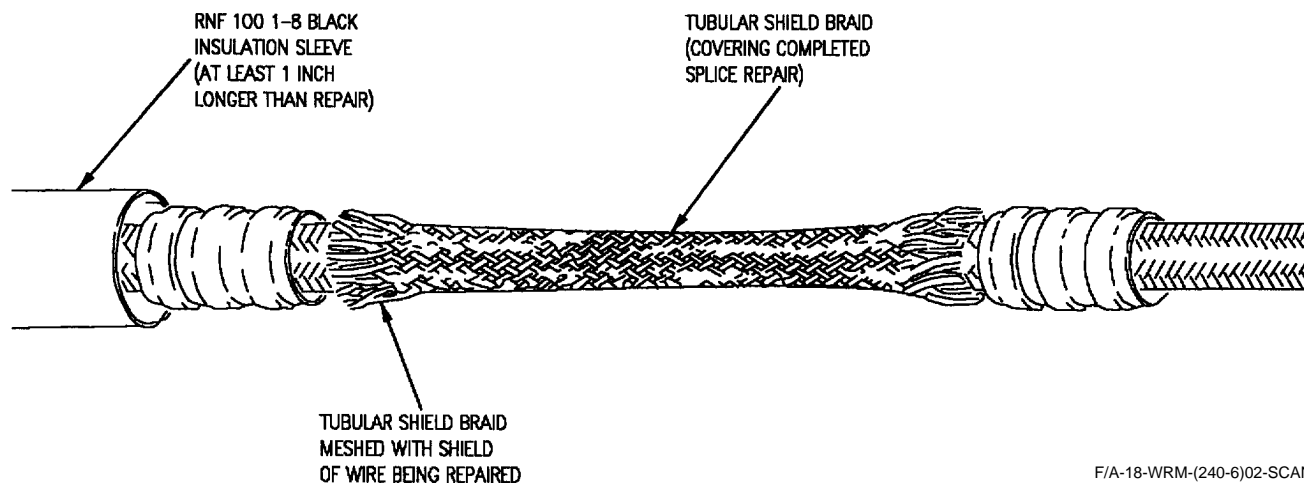


Figure 6. Installing Tubular Shield Braid

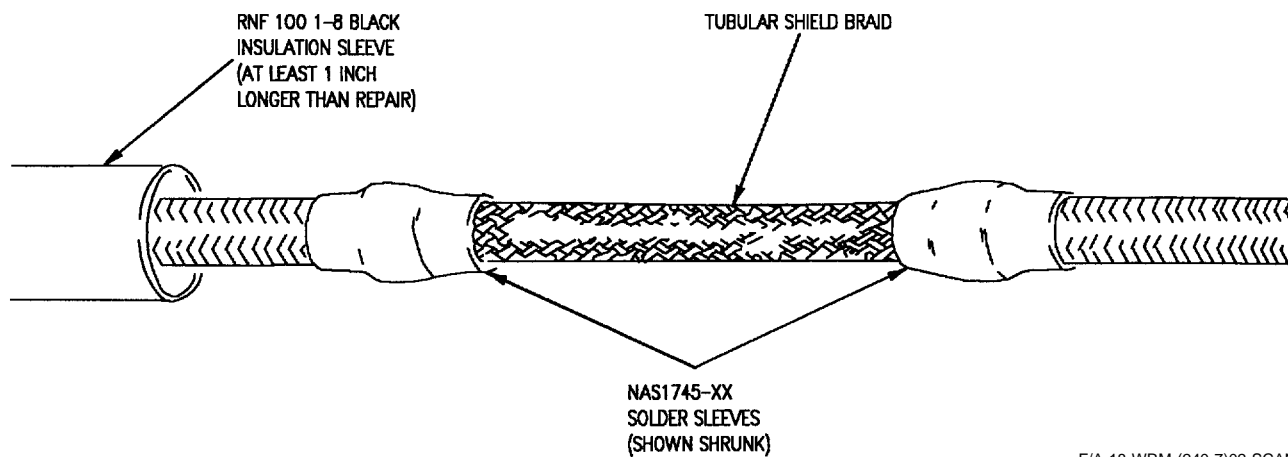


Figure 7. Shrink Solder Sleeves

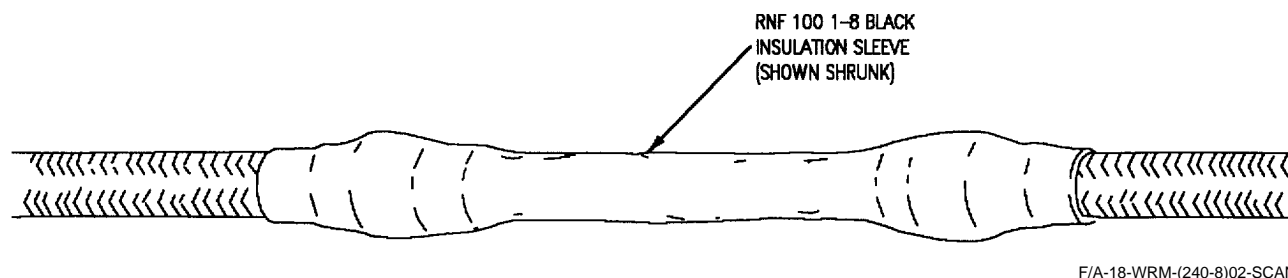


Figure 8. Completed Repair

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

REPAIR OF MULTI-CONDUCTOR SHIELDED CABLE

This WP supersedes WP 030 00, dated 1 October 1993.

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Support Equipment Required	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides general repair procedures for single conductor shielded wire.



Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3


Materials Required

Specification or
Part Number

Nomenclature

D-609-XX  XX	Conductor Splice
M23054/4-XXX-0	Insulation Sleeve
NAS1745-XX  XX	Solder Sleeve
RNF100 1-8BLACK	Insulation Sleeve
8660 (3/16-Inch)	Tubular Shield Braid
8661 (5/16-Inch)	Tubular Shield Braid
8664 (5/32-Inch)	Tubular Shield Braid
8674 (1/16-Inch)	Tubular Shield Braid

NOTE

 Size required to be determined by technician.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE

Splices must be staggered when more than one wire is to be repaired to prevent bundle enlargement.

- a. Remove at least 4 inches of damaged wire so that only good wire remains. See figure 1.

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

- b. Refer to Wire Type List (WP004 00) and determine jumper wire size required. Cut jumper wire so

that it will be same length as wire which was removed.

- c. Using wire strippers identified in WP004 00, strip cable and jumper wire as shown below. See figure 2.

- d. Comb out braided shield and fold back over wire jacket.

NOTE

Use Wire Type List (WP004 00) to determine size of materials required to complete wire repair.

- e. Slide insulation sleeve (RNF100 1-8BLACK), tubular shield braid, solder sleeve, insulation sleeve (M23054/4-XXX-0) and conductor splice over end of wire to be repaired and jumper wire. (See figure 3 and table 1).

NOTE

When necessary to determine mating wires between wire being repaired and jumper wire, make a continuity test of severed wires, using applicable cable/wiring assembly data work package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

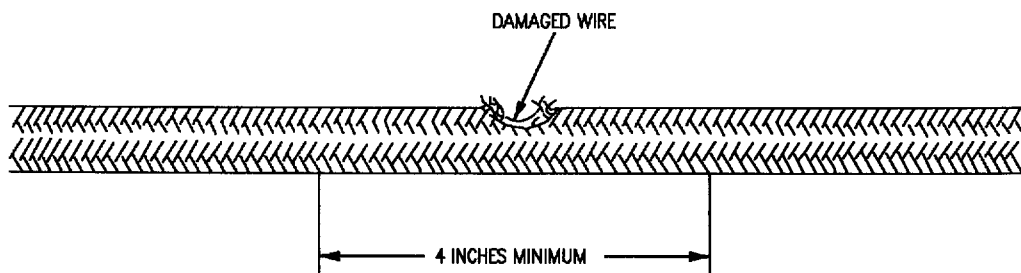
- f. Insert wire to be repaired and jumper wire into conductor splice and crimp using GMT 232 crimping tool. See figure 4

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

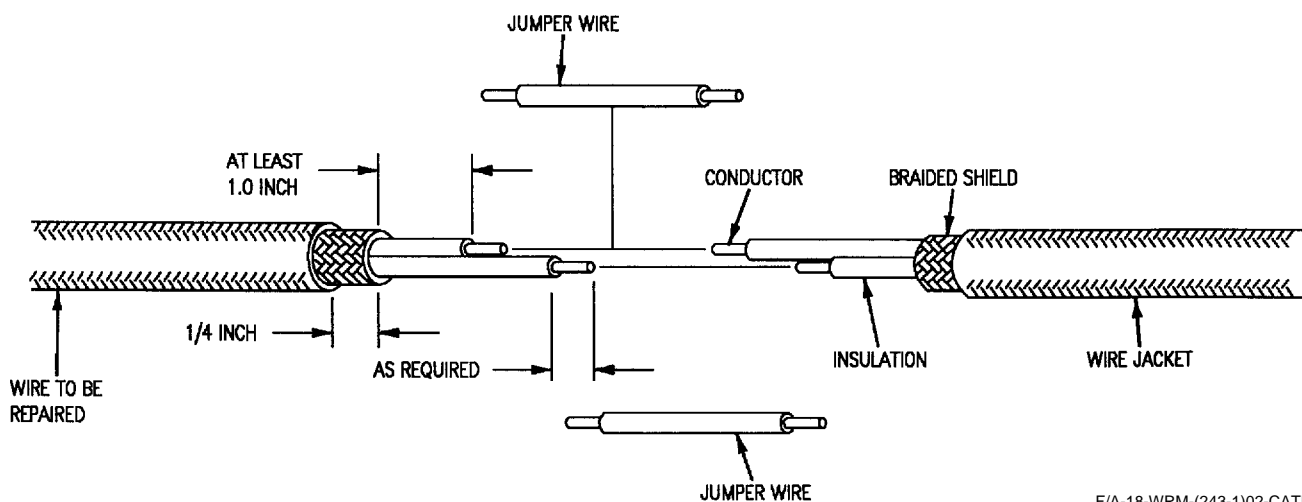
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

- g. Slide insulation sleeve (M23054/4-XXX-0) over crimped conductor splice and shrink insulation sleeve using heat tool. See figure 5.



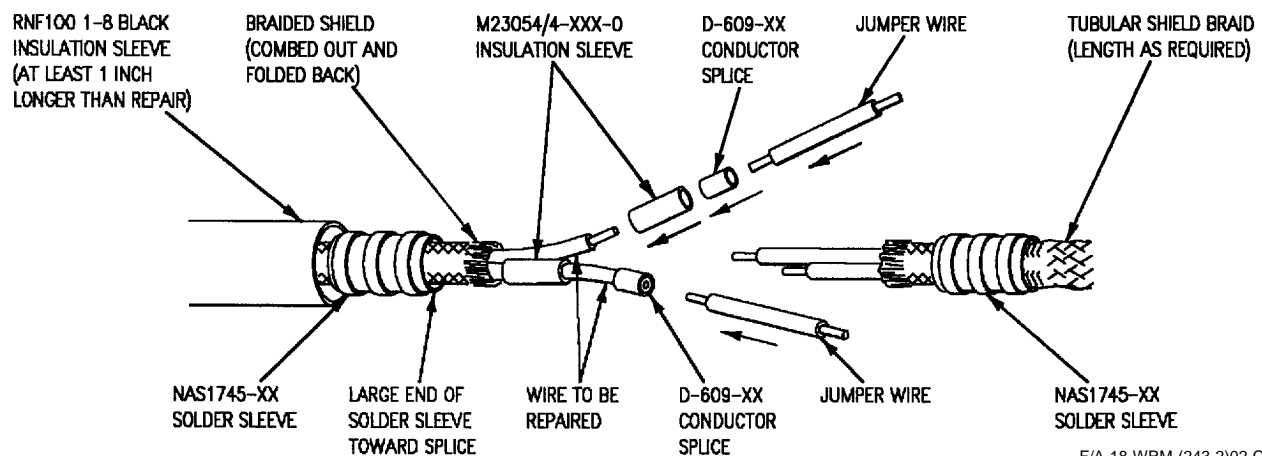
F/A-18-WRM-(240-1)02-SCAN

Figure 1. Removal of Damaged Wire



F/A-18-WRM-(243-1)02-CATI

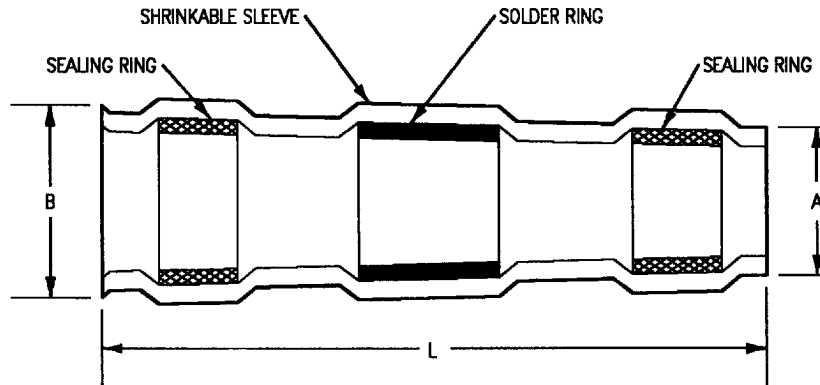
Figure 2. Stripping Cable and Jumper Wire



F/A-18-WRM-(243-2)02-CATI

Figure 3. Installing Insulation Sleeve

Table 1. M83519/1 and NAS1745 Solder Sleeve



F/A-18-WRM-(370-1)01-CAT1

Part Number	A Diameter Before Shrinking Minimum (Inch)	B Diameter Before Shrinking Minimum (Inch)	L Length (Inch)
NAS1745-1 M83519/1-1	5/64	3/32	5/8
NAS1745-2 M83519/1-2	7/64	1/8	5/8
NAS1745-3 M83519/1-3	3/16	13/64	5/8
NAS1745-4 M83519/1-5	1/4	15/64	3/4
NAS1745-5	5/64	3/32	5/8
NAS1745-13 M83519/1-1	5/64	3/32	5/8
NAS1745-14 M83519/1-2	7/64	1/8	5/8
NAS1745-15 M83519/1-3	3/16	13/64	5/8
NAS1745-16 M83519/1-5	1/4	15/64	3/4
NAS1745-17 M83519/1-4	15/64	1/4	3/4
NAS1745-18	7/16	15/32	1-7/64
NAS1745-25	33/64	35/64	1-7/64
Color - Transparent blue. Use HT-900 heat tool to shrink sleeve.			

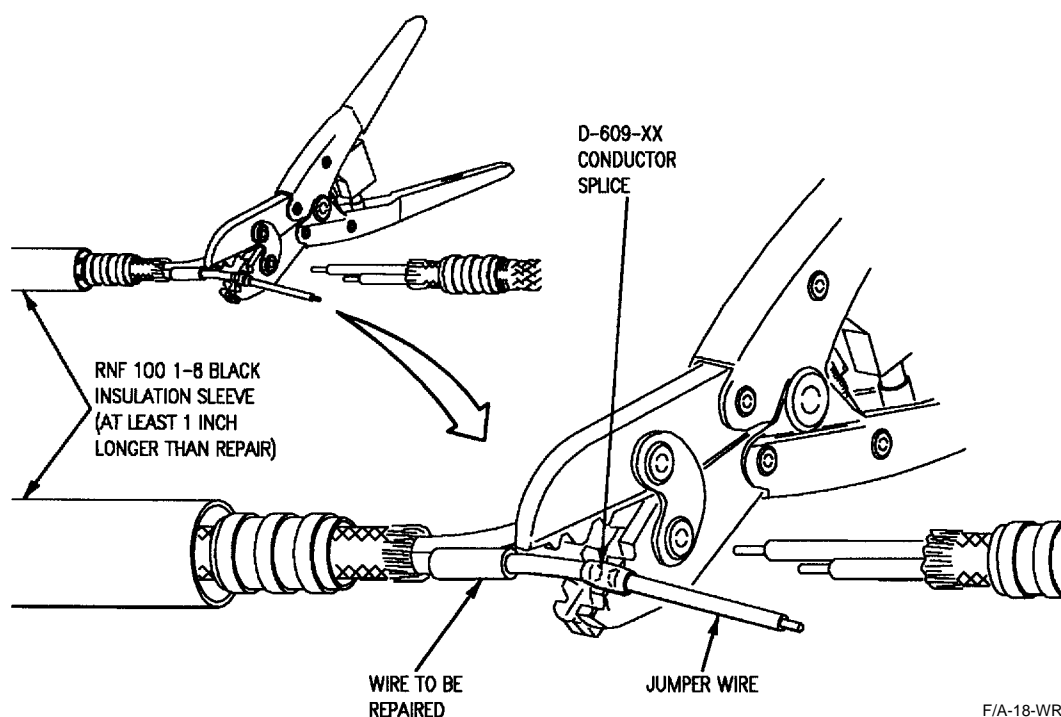


Figure 4. Crimping Wire and Jumper Wire

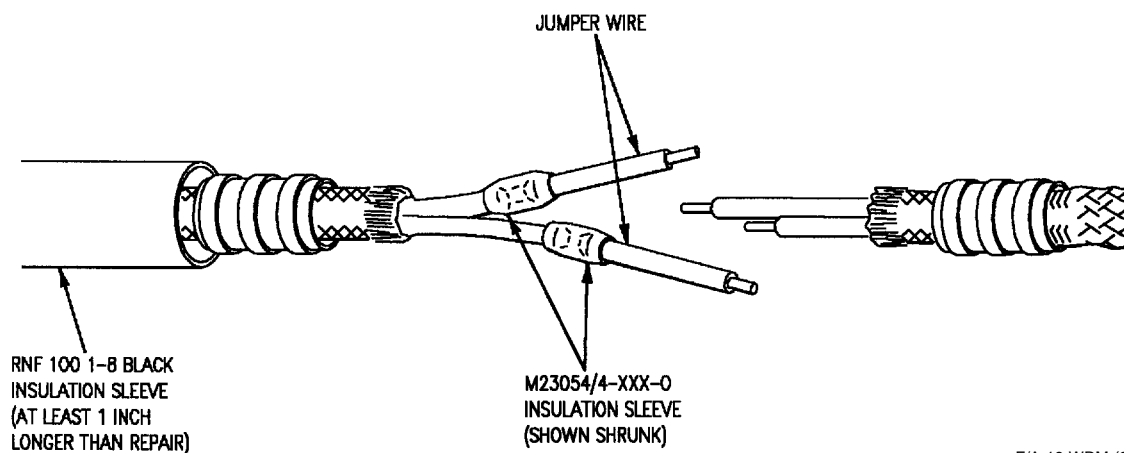


Figure 5. Shrinking Insulation Sleeve

h. Repeat paragraphs 3c through 3g to complete splice repair of open end of jumper wire to wire to be repaired, then go to paragraph 3i.

i. Slide tubular shield braid over completed splice repair. While holding tubular shield braid in place comb out tubular shield braid and mesh strands with shield of wire being repaired. See figure 6.

j. Slide solder sleeves over ends of tubular shield braid.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

k. Shrink solder sleeves using heat tool. See figure 7.

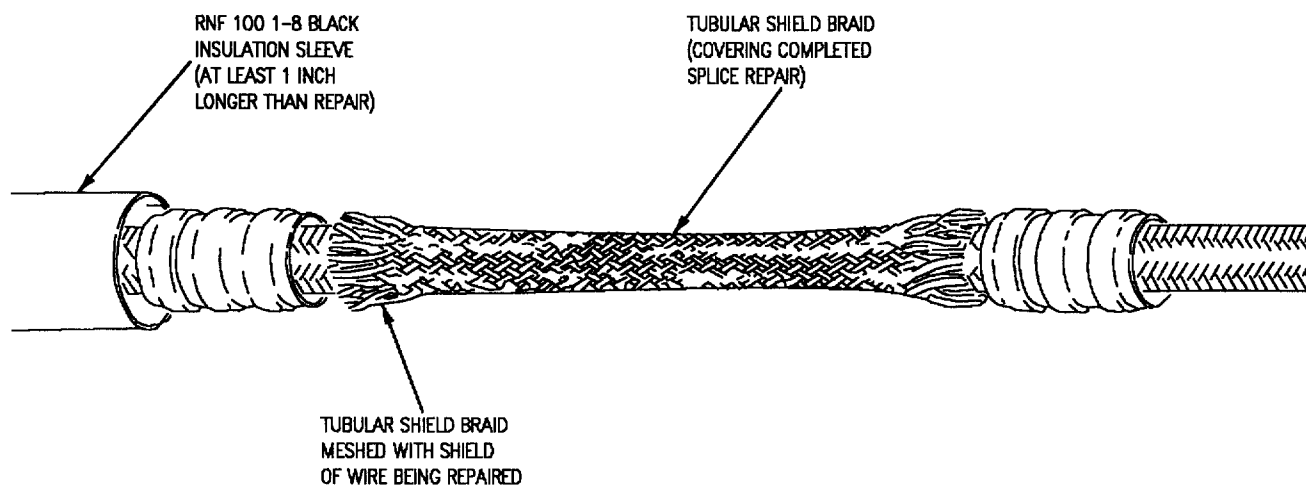
l. Slide insulation sleeve (RNF100 1-8BLACK) over splice repair. Insulation sleeve should extend at least 1/2-inch past ends of solder sleeves.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

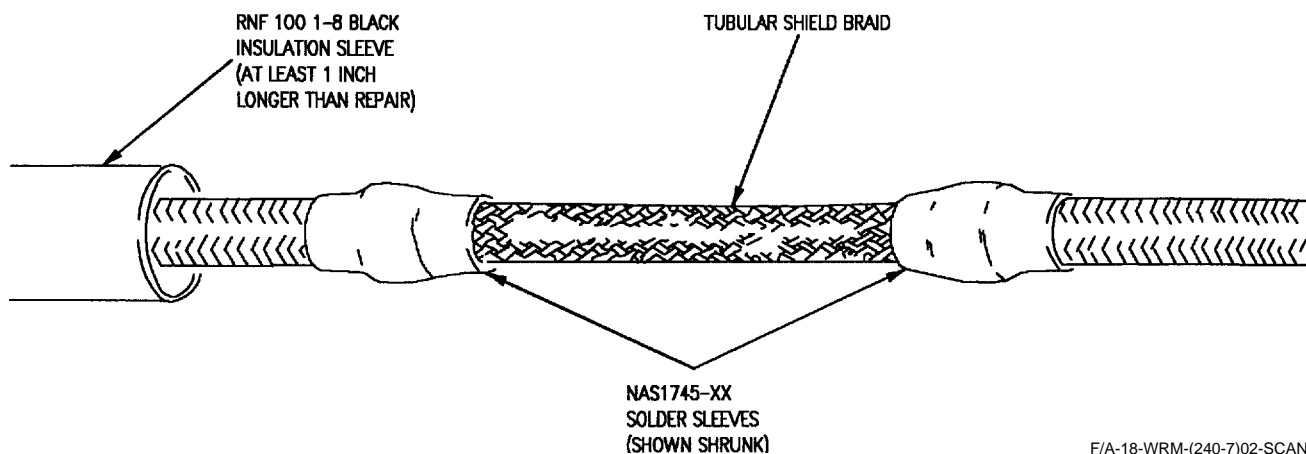
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

m. Shrink insulation sleeve (RNF100 1-8BLACK) using heat tool so completed repair appears as below. See figure 8.



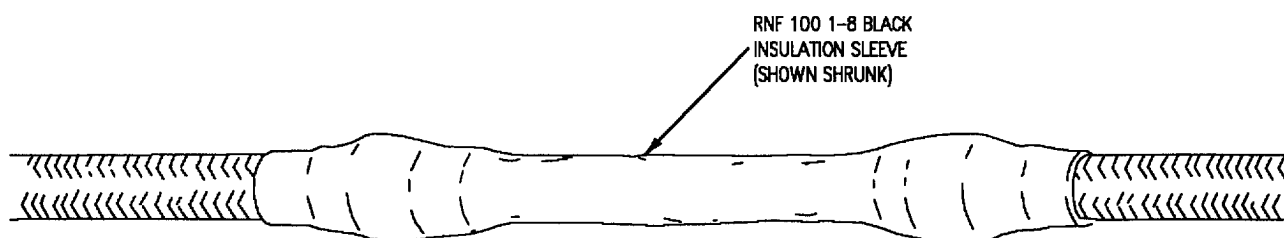
F/A-18-WRM-(240-6)02-SCAN

Figure 6. Completing Splice Repair



F/A-18-WRM-(240-7)02-SCAN

Figure 7. Shrink Solder Sleeves



F/A-18-WRM-(240-8)02-SCAN

Figure 8. Shrink Insulation Sleeve

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

SHIELDED CABLE SPLICE TERMINATION

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data General Wiring Repair Procedures	A1-F18AC-WRM-000
Splice Combinations and End Caps	WP035 00

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Splice Center Conductors Figure 2	2
Strip Shielded Cable Figure 1	2
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Record of Applicable Technical Directives

None

1. DESCRIPTION.

2. This work package describes the procedures and tools necessary to terminate a shielded cable splice.

Support Equipment Required
(Continued)

Support Equipment Required

Part Number or Type Designation	Nomenclature	Part Number or Type Designation	Nomenclature
		1317AS100-1	Nitrogen Servicing Unit NAN-3
HT-900	Heat Tool		

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder
See Table 1	Solder Sleeve
See Table 2	Tubular Shield Braid

3. ASSEMBLY PROCEDURE.

4. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE

A maximum of three center conductor splices shall be under a single shield boot.

a. Strip shielded wire/cable to specified dimension. Maximum length is 1 inch times number of splices.

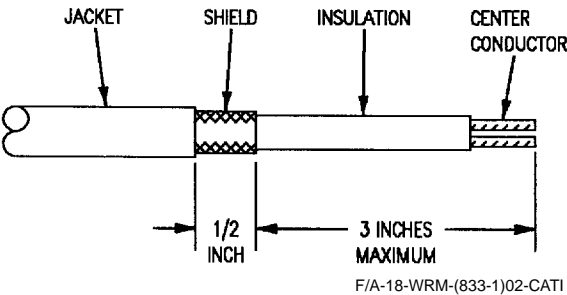


Figure 1. Strip Shielded Cable

See figure 1.

NOTE

Leave wire/cable at its longest allowed length.

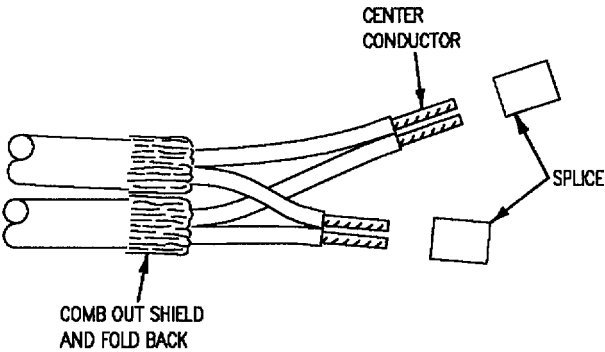
b. Comb out and fold shield back over wire/cable jacket.

c. Evenly position or line up shielding of wires/cables which have center conductors that terminate at the same splice.

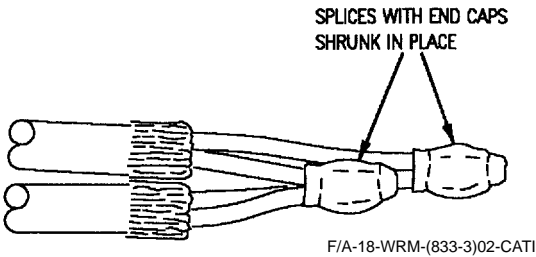
NOTE

Stagger splices and their end caps in multiple splice applications to prevent harness enlargement.

d. Splice center conductors. Refer to WP035 00. See figure 2.



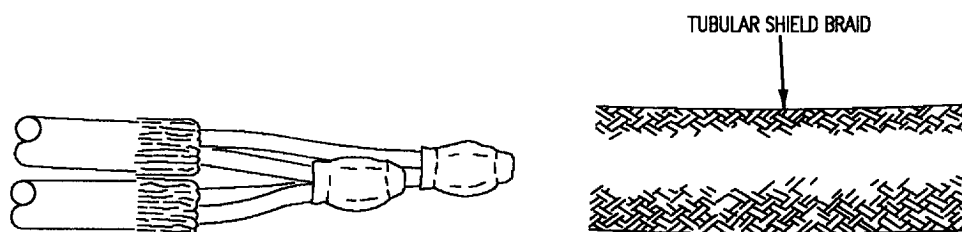
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F/A-18-WRM-(833-3)02-CATI

Figure 2. Splice Center Conductors

e. Install a length of tubular shield braid (table 2) over splices and over but not beyond folded braided shield. See figure 3.

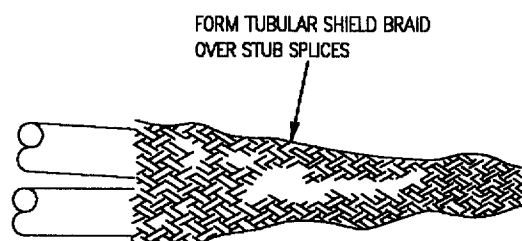


F/A-18-WRM-(833-4)02-CAT1

Figure 3. Installing Tubular Shield Braid

f. Hold tubular braid in position and conform it to existing configuration.

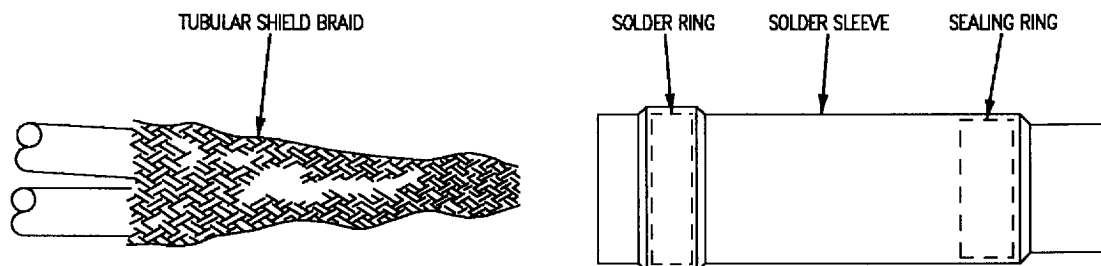
g. Twist tubular braid at splice end and trim off excess length. See figure 4.



F/A-18-WRM-(833-5)02-CAT1

Figure 4. Conforming Tubular Braid

h. Slide solder sleeve (table 1) over tubular shield braid. Center solder ring over tubular braid/folded shield joint. See figure 5.



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Figure 5. Centering Solder Ring Over Shield Joint

i. Position sealing ring against tubular braid end.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

CAUTION

Separate and, if necessary, isolate the wires in work from the rest of the splice area to prevent heat damage.

j. Shrink solder sleeve using heat tool and reflector starting at the small end. See figure 6.

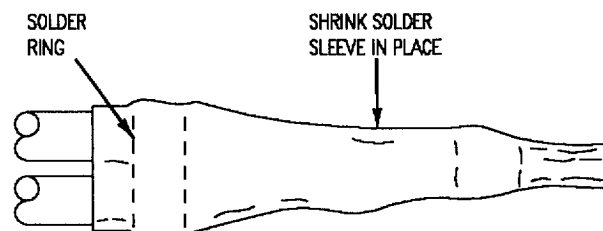
k. Melt solder ring, rotating heat tool to assure even heat distribution.

l. Maintain heat on joint until solder penetrates tubular shield braid.

NOTE

Shrink time will be about 30 seconds. Sleeve may turn brown during heating in the area of the solder ring. This is acceptable unless the sleeve cracks or splits.

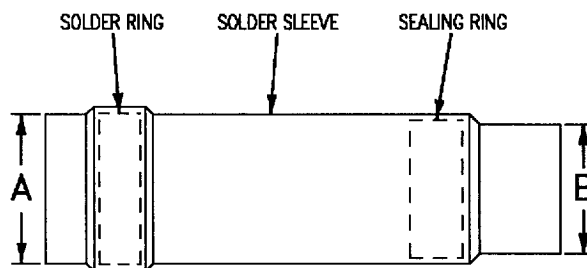
m. Allow to cool and trim off any excess sleeve length.



F/A-18-WRM-(833-7)02-CATI

Figure 6. Shrinking Solder Sleeve

Table 1. Solder Sleeve



F/A-18-WRM-(833-8)02-CAT1

PART NUMBER	VENDOR	A DIAMETER		B DIAMETER	
		BEFORE SHRINKING MINIMUM (INCH)	AFTER SHRINKING MAXIMUM (INCH)	BEFORE SHRINKING MINIMUM (INCH)	AFTER SHRINKING MAXIMUM (INCH)
D-108-06	06090	11/32	3/16	5/16	1/8
D-108-07	06090	7/16	7/32	11/32	5/32
D-108-08	06090	1/2	3/16	7/16	7/32
COLOR - TRANSPARENT BLUE TEMPERATURE RANGE: -67°F (-55°C) TO 347°F (175°C) USE HT-900 HEAT TOOL TO SHRINK SLEEVE					

Table 2. Tubular Shield Braid

PART NUMBER	VENDOR	SIZE (INCH)	MATERIAL
8664	16428	5/32	TINNED COPPER
8660	16428	3/16	TINNED COPPER
8661	16428	5/16	TINNED COPPER
TEMPERATURE RANGE -65°F (-54°C) TO 300°F (149°C)			

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****REPAIR OF SHIELDED/NON-SHIELDED BRAIDED WIRING HARNESS**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Protective Boot Installation For Environmental Type Connectors With Metal Cable Clamps	WP080 00
Repair of Multi-Conductor Shielded Cable	WP030 00
Repair of Single Conductor Non-Shielded Cable	WP026 00
Repair of Single Conductor Shielded Cable	WP028 00
Wire Type List	WP004 00

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Splicing Damaged Wire, Figure 1	3
Strip Replacement Wire and Existing Wire, Figure 6	10
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Record of Applicable Technical Directives

None



1. INTRODUCTION.

2. This work package provides general procedures for the repair of braided wiring harnesses by adding non-shielded or shielded wire external to the braided wiring harness.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit-NAN-3


Materials Required

Specification or Part Number	Nomenclature
B637-1-500 YELLOW	Marker, Band
D-436-XX  XX	Conductor Splices (See Table 2)
D-609-XX  XX	Conductor Splice

Materials Required (Continued)

Specification or Part Number	Nomenclature
MIL-I-23594, TYPE 2, 1/2IN.WIDE	Insulation Tape
MIL-I-46852 TYPE 2, 1.000IN.BLK	Insulation Tape
MIL-T-43435 TYPE-2SIZE-3 FINISH-C	Lacing Tape
M23054/4-XXX-0  XXX	Insulation Sleeve
NAS1745-XX  XX	Solder Sleeve
RNF100 1-8BLACK	Insulation Sleeve
See Table 3	End Caps
See Table 4	Plastic Tiedown Strap
8660 (3/16-Inch)	Tubular Shield Braid
8661 (5/16-Inch)	Tubular Shield Braid
8664 (5/32-Inch)	Tubular Shield Braid
8674 (1/16-Inch)	Tubular Shield Braid

NOTE

 Size required to be determined by technician.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

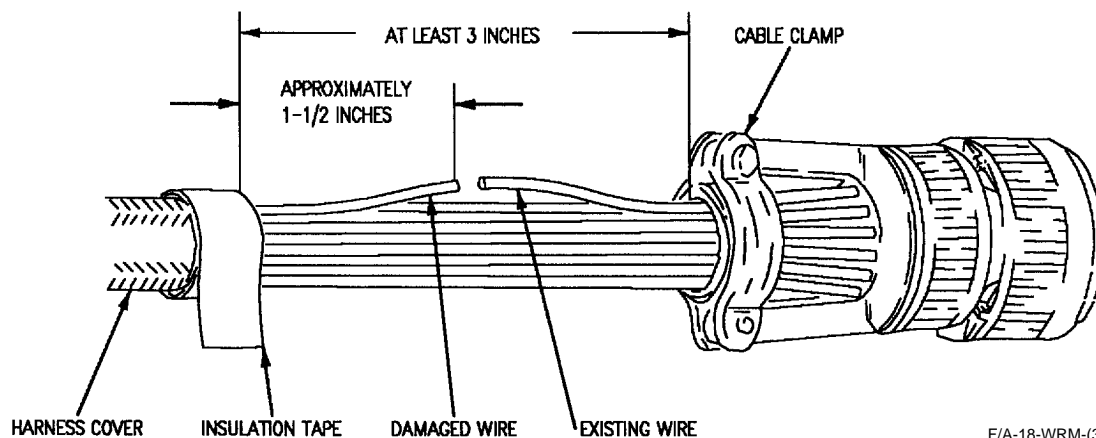
a. Determine if wire to be replaced is damaged beyond repair by splicing. If splicing is possible, refer to WP026 00, WP028 00 or WP030 00, as applicable.

b. Remove electrical connector protective boot. Refer to WP080 00. See figure 1.

c. Remove at least 3 inches of harness cover beginning at cable clamp.

d. Wrap end of cut harness cover with several turns of insulation tape (MIL-I-23594, TYPE 2, 1/2IN.WIDE).

e. Cut damaged wire 1-1/2 inches from end of cut harness cover.



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Figure 1. Splicing Damaged Wire

f. Refer to table 1 for applicable external replacement wire and cut to required length.

g. Refer to paragraph 4 for adding non-shielding wire to braided wiring harness, paragraph 5 for adding shielded wire to braided wiring harness or paragraph 6 for adding shielded wire to non-shielded wire.

h. Replacement of coax wire must be directly connected to electrical connector. When replacing coax wire, refer to table 1 for necessary replacement wire then refer to Reference Designation To Work Package Index (WP001 02) for applicable connector repair work package.

Table 1. External Wire Replacement

ORIGINAL WIRE TYPE	REPLACEMENT WIRE TYPE
640	381 678 707
641	381 678 707
644	657
645	658
647	660
650	664
651	665
652	666
653	667
656	656
677	381 678
678	678
689	689
705	705
706	706
707	707
716	716
726	843
732	732
761	381 678
773	773
774	774

Table 1. External Wire Replacement
(Continued)

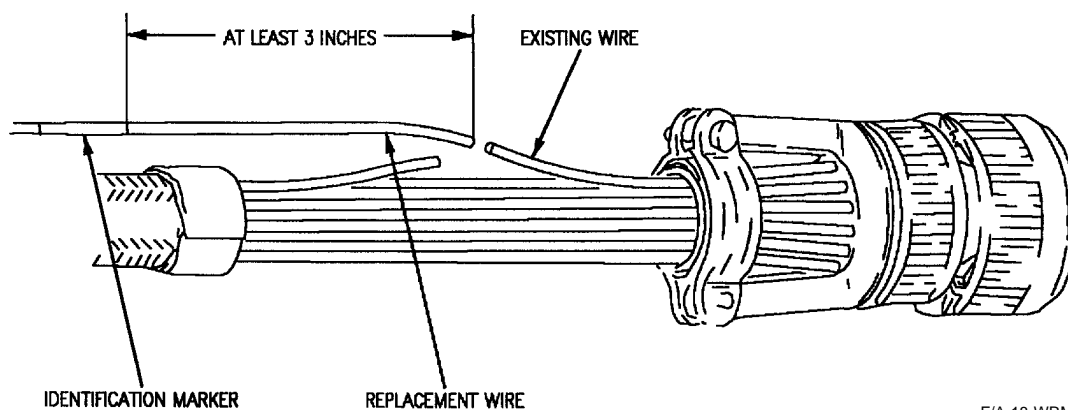
ORIGINAL WIRE TYPE	REPLACEMENT WIRE TYPE
798	798
799	799
800	800
801	801
805	805
806	806
807	807
808	808
809	809
810	810
811	811
813	813
814	814
822	822
824	824
852	852
868	868
871	871

4. ADDING NON-SHIELDED WIRE TO BRAIDED WIRING HARNESS.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

- a. Add identification markers to replacement wire at least 3 inches from both ends of wire. See figure 2.



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Figure 2. Adding Identification Marker to Replacement Wire

- b. Based on wire size to be repaired, select applicable conductor splice part number from table 2.

Table 2. Conductor Splices

Part Number	Color Strip	Wire Sizes AWG	Maximum Wire Insulation Size (Inch)
D-436-36	Red	20, 22, 24	3/32
D-436-37	Blue	16, 18, 20	7/64
D-436-38	Yellow	12, 14, 16	3/16

c. Based on wire size of damaged wire, select applicable end cap part number from table 3.

Table 3. End Caps

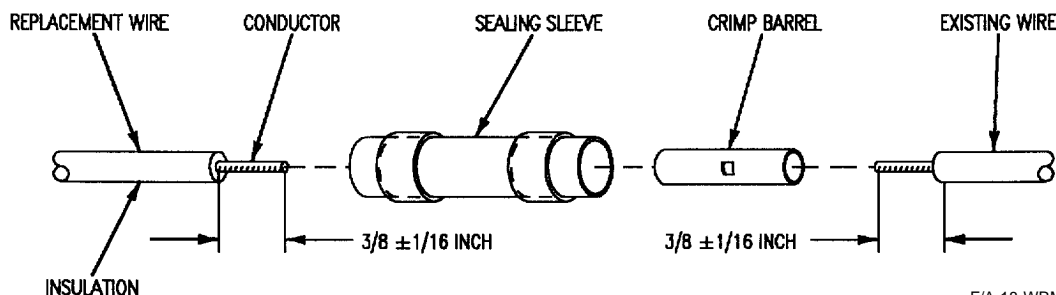
PART NUMBER		COLOR	MAXIMUM WIRE INSULATION SIZE (INCH)
CAGE 06090	CAGE 24011		
TC 4001 CRN	SRC-1	WHITE	1/16
TC 4003 CRN	SRC-2	RED	1/8
TC 4005 CRN	SRC-3	SLATE	1/4

NOTE

Identify applicable cable/wiring assembly below in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

d. Using wire strippers identified in WP004 00, replacement wire and existing wire as shown below. See figure 2A.

e. Slide sealing sleeve over end of replacement wire and install crimp barrel on end of wire.

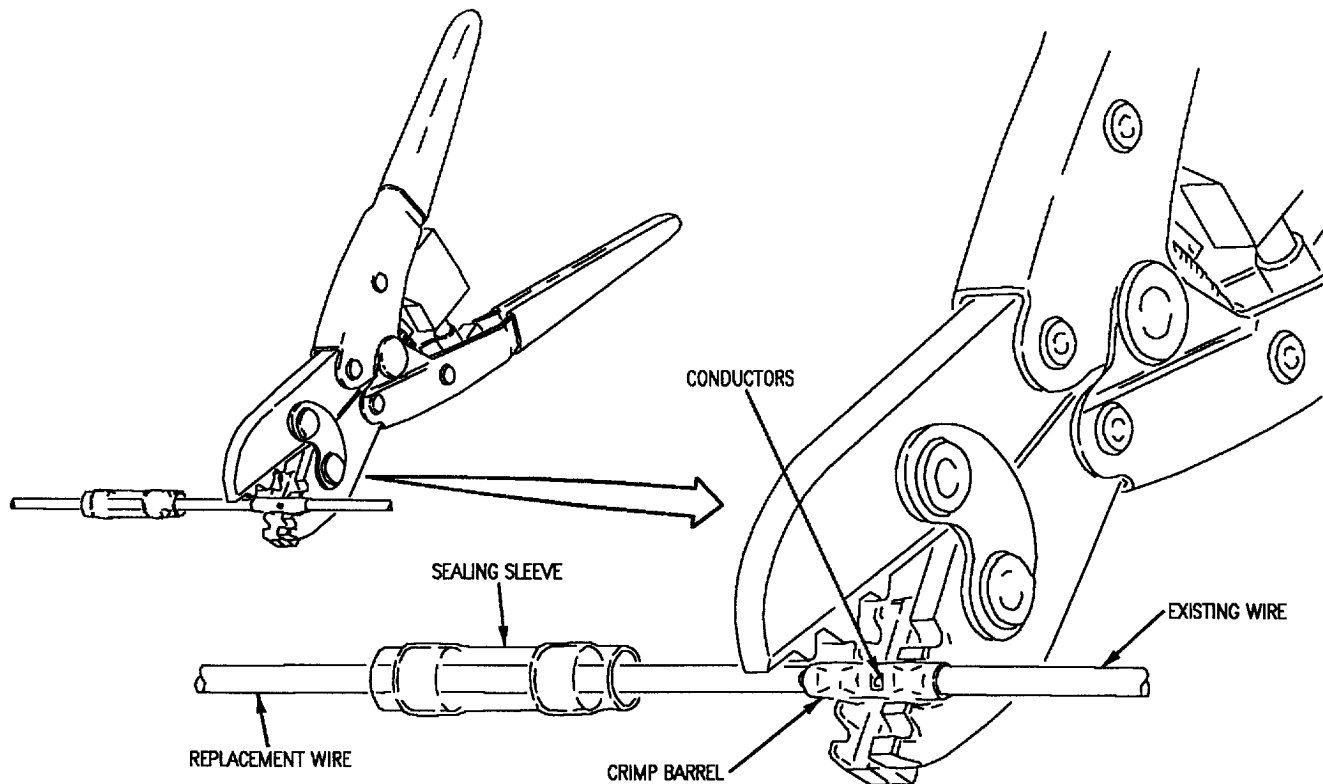


F/A-18-WRM-(321-3)02-SCAN

Figure 2A. Replacement of Wire

f. Make sure replacement wire conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool supplied with wire and connector repair set.

g. Make sure existing wire conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool. See figure 3.



F/A-18-WRM-(321-4)02-SCAN

Figure 3. Crimping Wire

h. Install end cap on end of damaged wire.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheelwells, stand-up bays, or crew stations can result in asphyxiation.

i. Center sealing sleeve over crimp barrel and using heat tool, apply heat starting at one end of sealing sleeve until melted insert flows from end of sleeve then move along sleeve until insert at opposite end of sleeve melts and flows along wire.

j. Shrink end cap on end of damaged wire using heat tool. See figure 4.

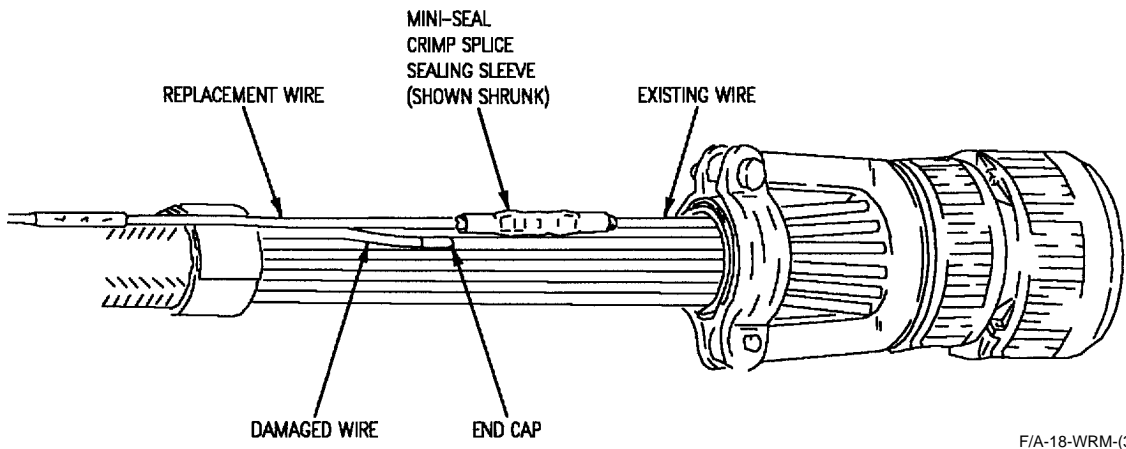


Figure 4. Installing End Cap on Damaged Wire

k. Route replacement wire along outside of over-braided wiring harness and secure using lacing tape spot ties or plastic tiedown straps per table 4.

l. Repeat paragraphs 4b through 4j to open end of replacement wire then go to paragraph 7 to complete repair.

Table 4. Plastic Tiedown Straps

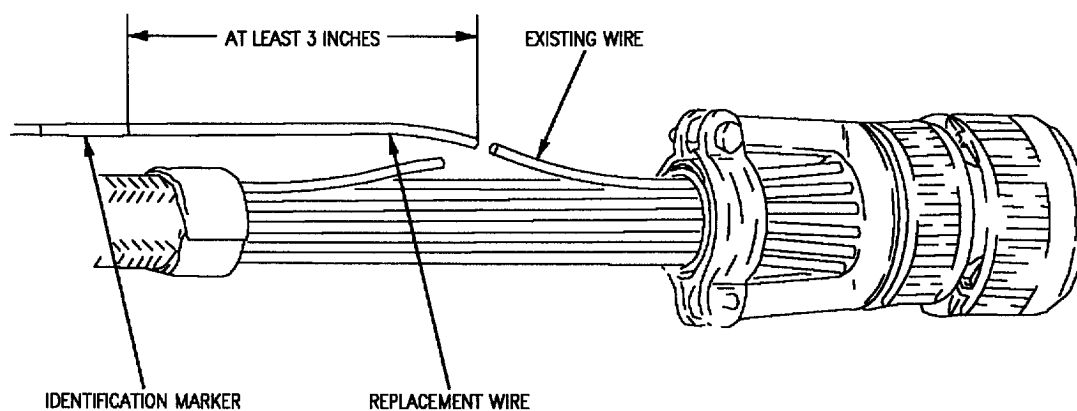
PART NUMBER		BRAIDED WIRING HARNESS DIAMETER (INCHES)	
CAGE 06383	CAGE 16956	MINIMUM	MAXIMUM
PLT-2S-CP30	08402	1/16	1-3/4
PLT-4H-C30	08403	3/16	3-1/2
SST-2H-C30	-	3-16	2

5. ADDING SHIELDED WIRE TO BRAIDED WIRING HARNESS.

- a. Add identification markers to replace wire at least 3 inches from both ends of wire. See figure 5.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.



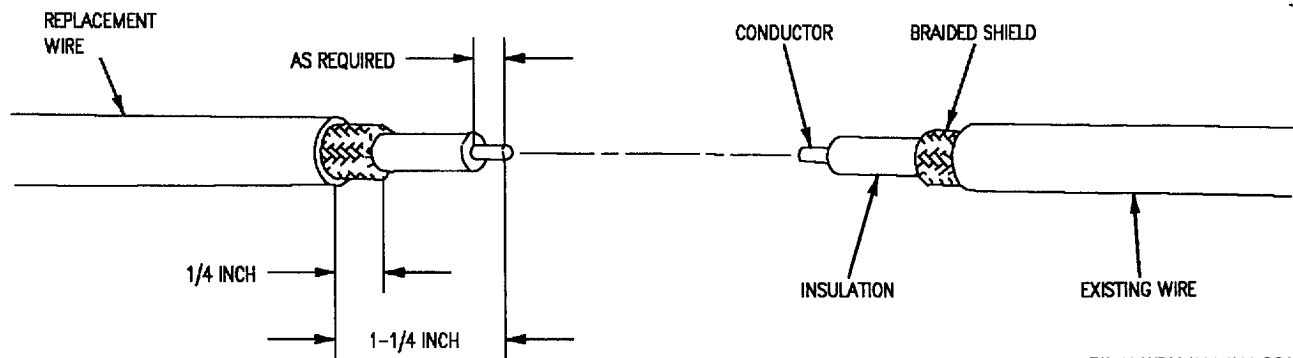
F/A-18-WRM-(321-2)02-SCAN

Figure 5. Adding Identification Marker to Replacement Wire

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

b. Using wire strippers identified in strip replacement wire and existing wire as shown below. See figure 6.



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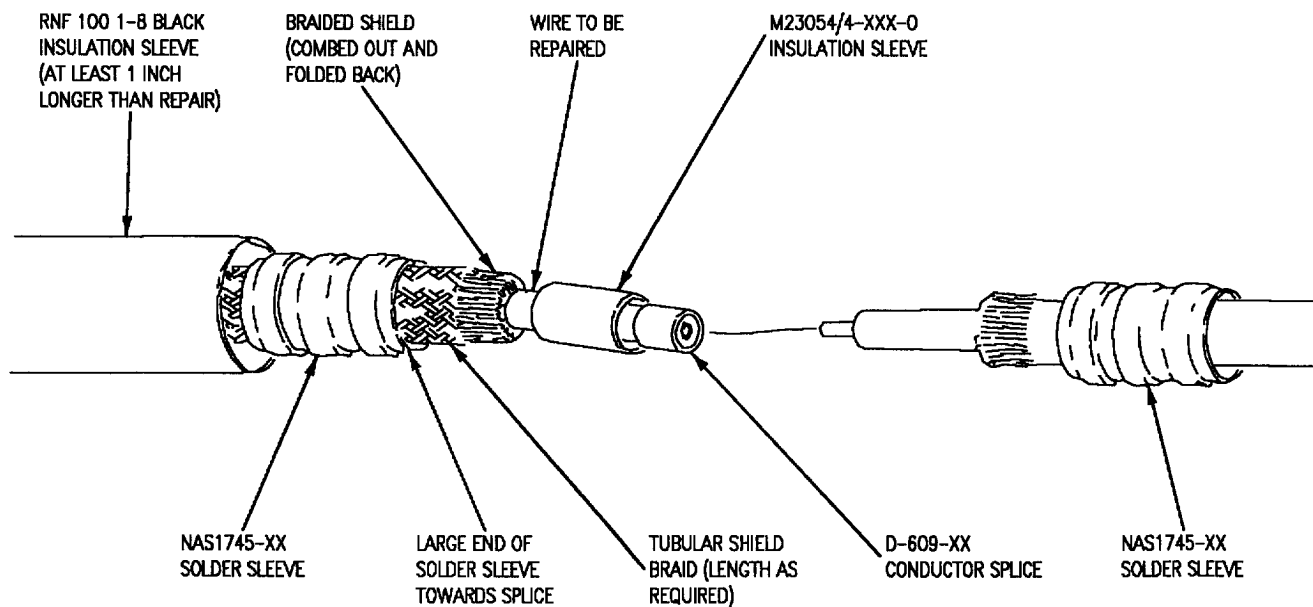
Figure 6. Strip Replacement Wire and Existing Wire

c. Comb out braided shield and fold back over wire jacket.

NOTE

Use Wire Type List (WP004 00) to determine size of materials required to complete the repair.

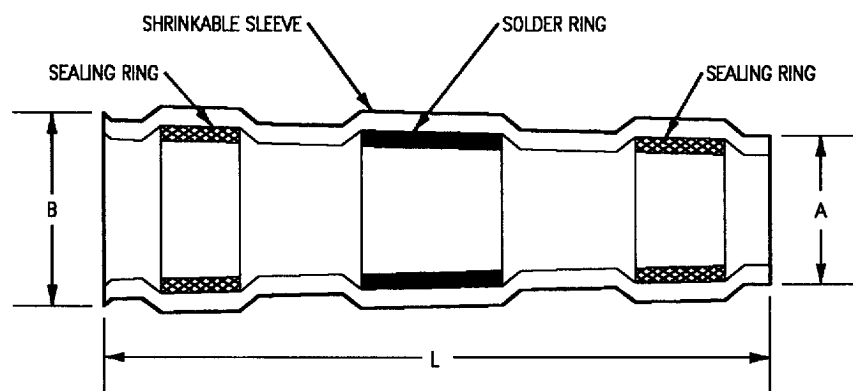
d. Slide insulation sleeve (RNF100-1-8 BLACK), tubular shield braid, solder sleeve, insulation sleeve (M23054/4-XXX-0) and conductor splice over end of replacement wire (see table 5). See figure 7.



F/A-18-WRM-(321-7)02-SCAN

Figure 7. Placement of Repair Parts

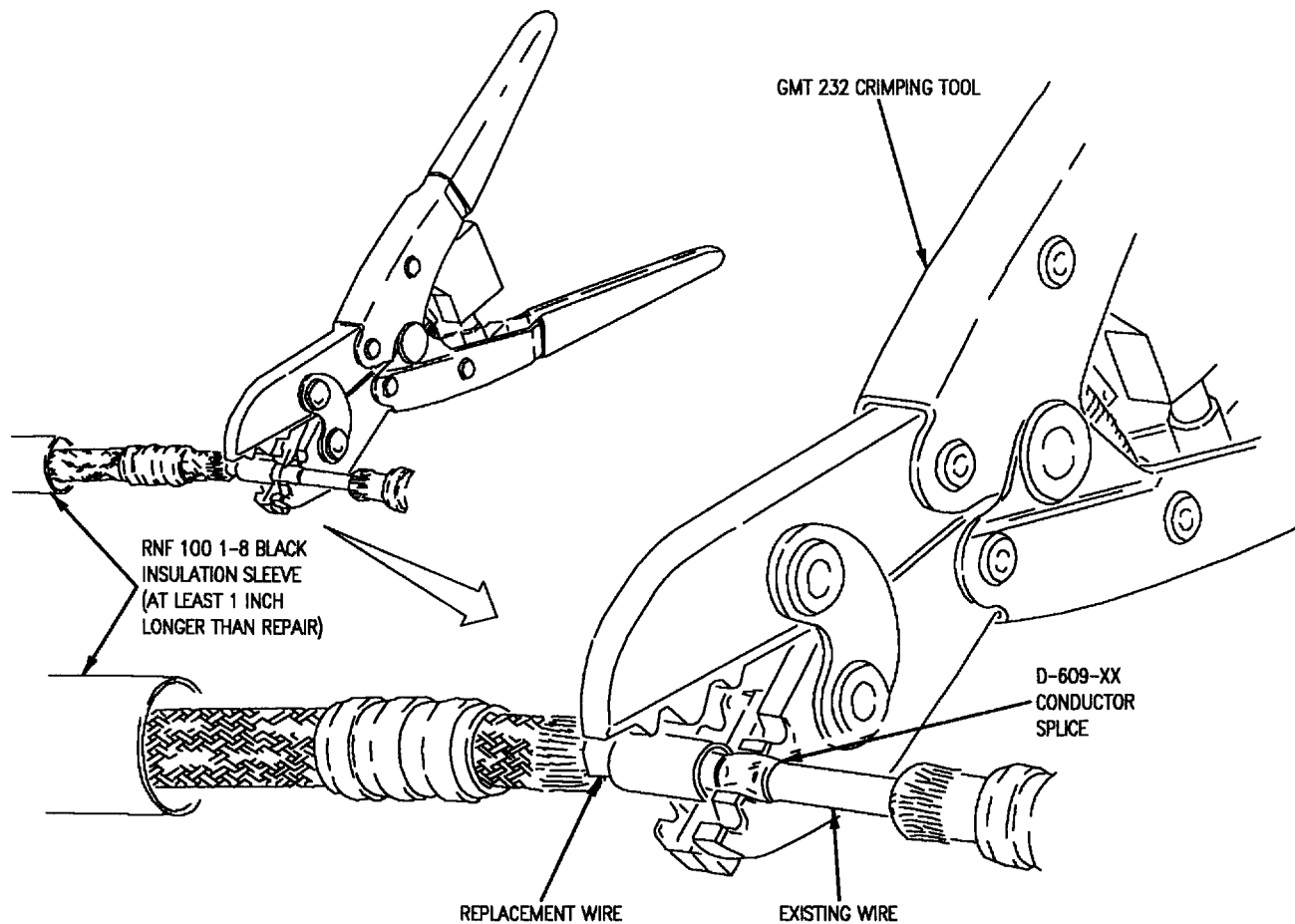
Table 5. M83519/1 and NAS1745 Solder Sleeve



F/A-18-WRM-(370-1)01-CAT1

Part Number	A Diameter Before Shrinking Minimum (Inch)	B Diameter Before Shrinking Minimum (Inch)	L Length (Inch)
NAS1745-1 M83519/1-1	5/64	3/32	5/8
NAS1745-2 M83519/1-2	7/64	1/8	5/8
NAS1745-3 M83519/1-3	3/16	13/64	5/8
NAS1745-4 M83519/1-5	1/4	15/64	3/4
NAS1745-5	5/64	3/32	5/8
NAS1745-13 M83519/1-1	5/64	3/32	5/8
NAS1745-14 M83519/1-2	7/64	1/8	5/8
NAS1745-15 M83519/1-3	3/16	13/64	5/8
NAS1745-16 M83519/1-5	1/4	15/64	3/4
NAS1745-17 M83519/1-4	15/64	1/4	3/4
NAS1745-18	7/16	15/32	1-7/64
NAS1745-25	33/64	35/64	1-7/64
Color - Transparent blue. Use HT-900 heat tool to shrink sleeve.			

e. Insert replacement wire conductor and existing wire conductor into conductor splice and crimp using GMT 232 crimping tool. See figure 8.



F/A-18-WRM-(321-8)02-SCAN

Figure 8. Crimping Wire Conductors

f. Based on wire size of damaged wire, select applicable end cap required from table 3 and install end cap on end of damaged wire.

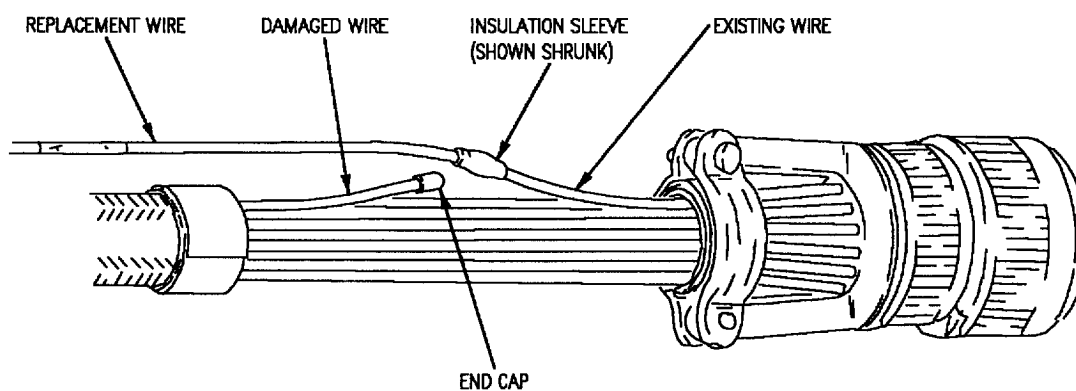
WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

g. Slide insulation sleeve (M23054/4-XXX-0) over crimped conductor splice and shrink insulation sleeve using heat tool.

h. Shrink end cap on end of damaged wire using heat tool. See figure 9.

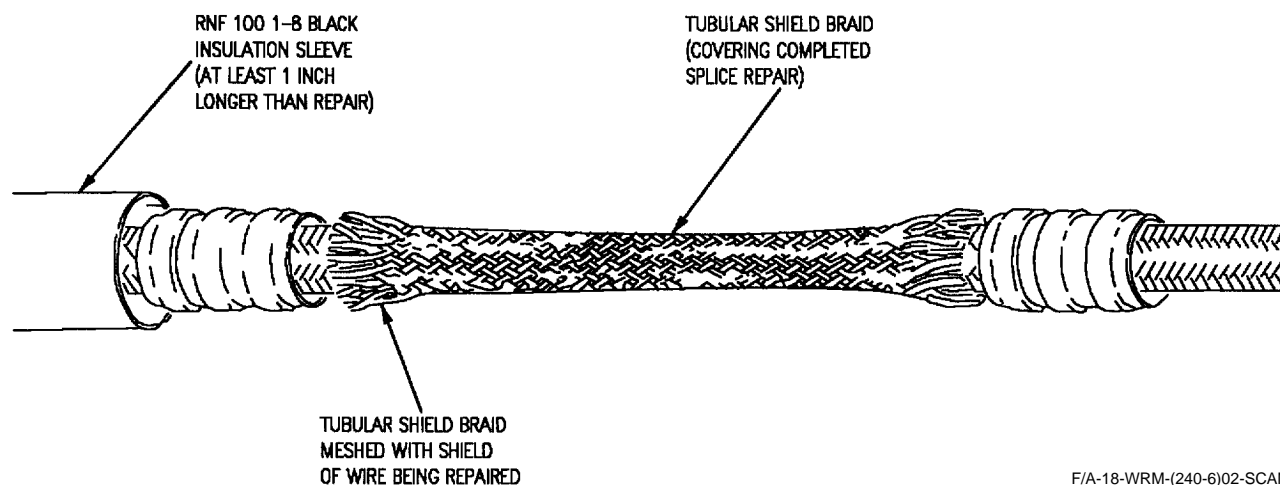


F/A-18-WRM-(321-9)02-SCAN

Figure 9. Installing End Cap and Insulation Sleeve

i. Slide tubular shield braid over completed splice repair. While holding tubular shield braid in place

comb out tubular shield braid and mesh strands with shield of wire being repaired. See figure 10.



F/A-18-WRM-(240-6)02-SCAN

Figure 10. Installing Tubular Shield Braid

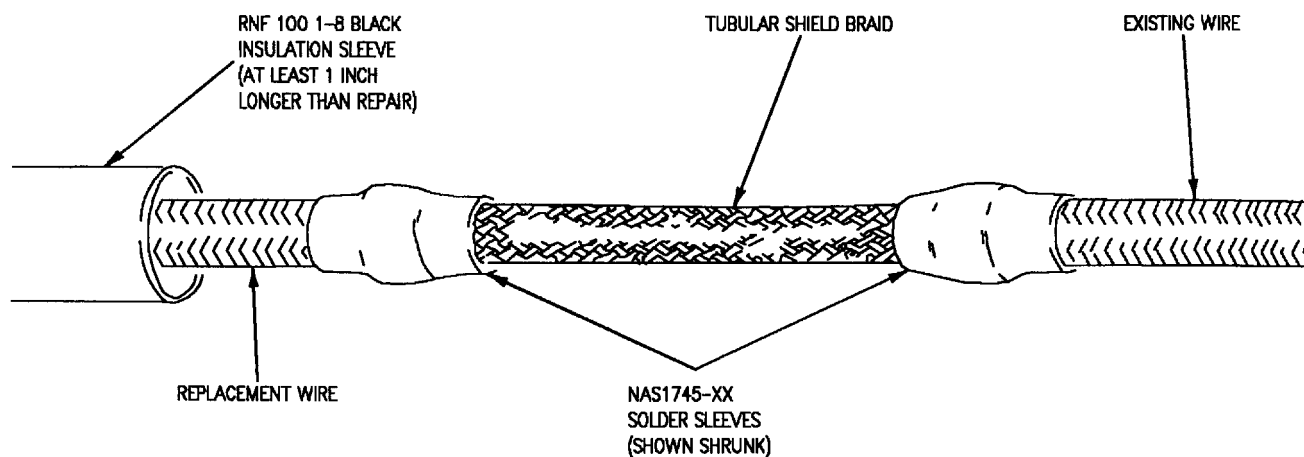
j. Slide solder sleeves over ends of tubular shield braid.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

k. Shrink solder sleeves using heat tool. See figure 11.



F/A-18-WRM-(321-10)02-SCAN

Figure 11. Installing Solder Sleeves

l. Slide insulation sleeve (RNF100 1-8BLACK) over splice repair. Insulation sleeve should extend at least 1/2-inch past ends of solder sleeves.

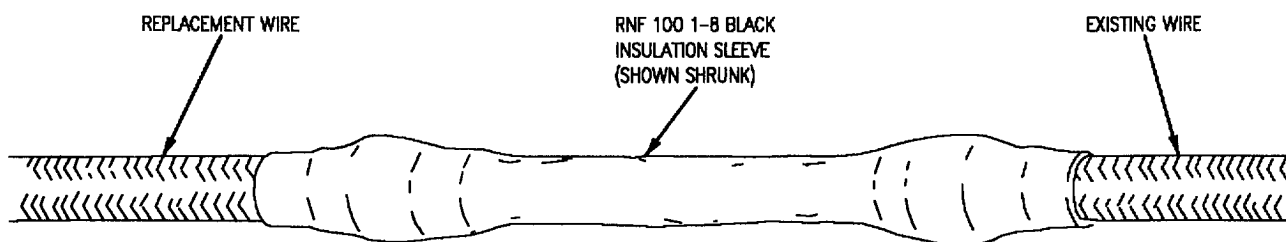
WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

WARNING

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

m. Shrink insulation sleeve (RNF100 1-8BLACK) using heat tool so that completed repair appears as below. See figure 12.



F/A-18-WRM-(321-11)02-SCAN

Figure 12. Shrink Insulation Sleeve

n. Route replacement wire along outside of braided wiring harness and secure using lacing tape spot ties or plastic tiedown straps per table 4.

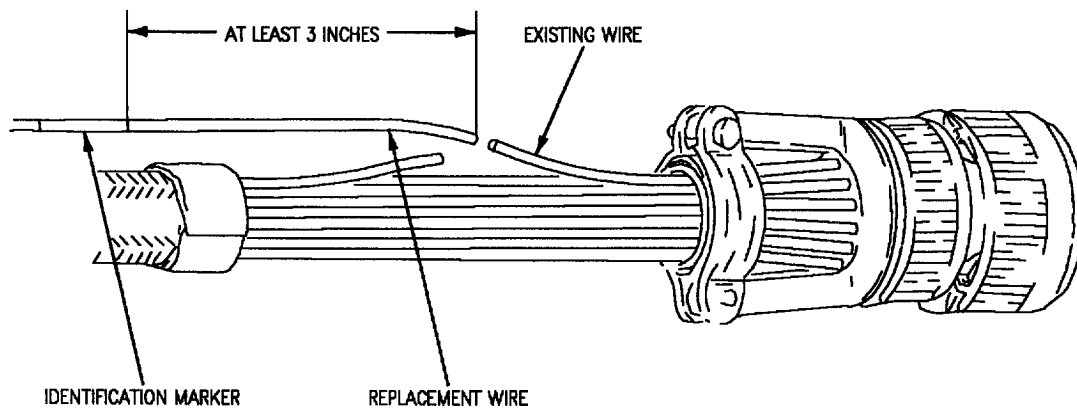
o. Repeat paragraphs 5b through 5m to open end of replacement wire to complete repair.

6. ADDING SHIELDED WIRE TO BRAIDED WIRING HARNESS NON-SHIELDED WIRE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Add identification markers to replacement wire at least 3 inches from both ends of wire. See figure 13.



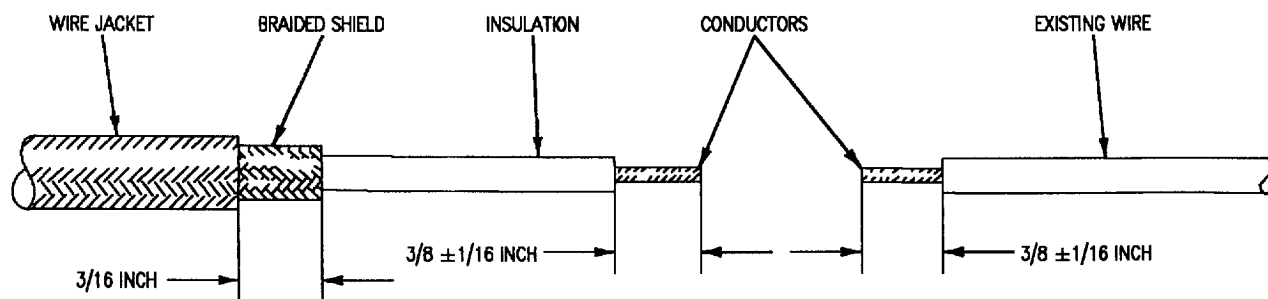
F/A-18-WRM-(321-2)02-SCAN

Figure 13. Adding Identification Markers

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

b. Using wire strippers identified in WP004 00, strip replacement wire and existing wire as shown below. See figure 14.



F/A-18-WRM-(321-12)02-SCAN

Figure 14. Stripping Wire

c. Based on wire size to be repaired, select applicable mini-seal crimp splice part number from table 2.

d. Based on wire size of damaged wire, select applicable end cap part number from table 3.

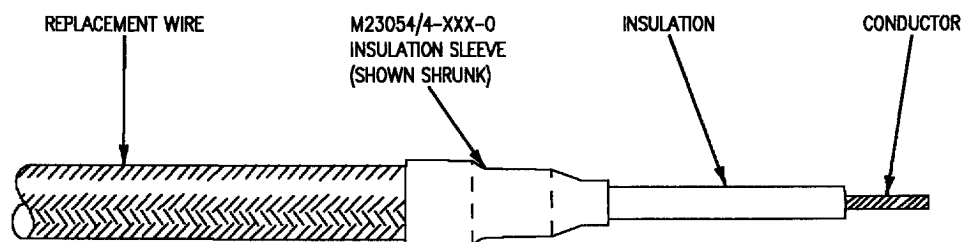
e. Cut required length of insulation sleeve (M23054/4-XXX-0) to cover braid shield on replacement wire.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

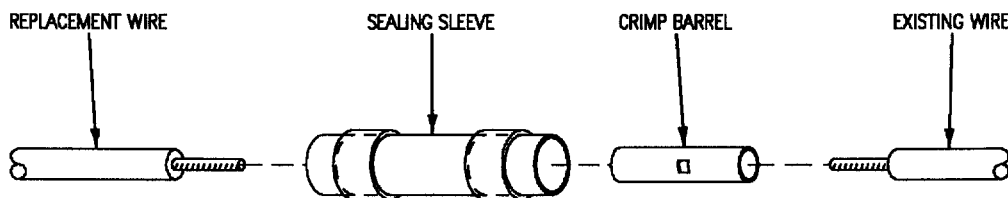
f. Slide insulation sleeve (M23054/4-XXX-0) over braid shield of replacement wire and shrink insulation sleeve using heat tool. See figure 15.



F/A-18-WRM-(321-13)02-SCAN

Figure 15. Shrinking Insulation Sleeve

g. Slide sealing sleeve over end of replacement wire and install crimp barrel on end of wire. See figure 16.

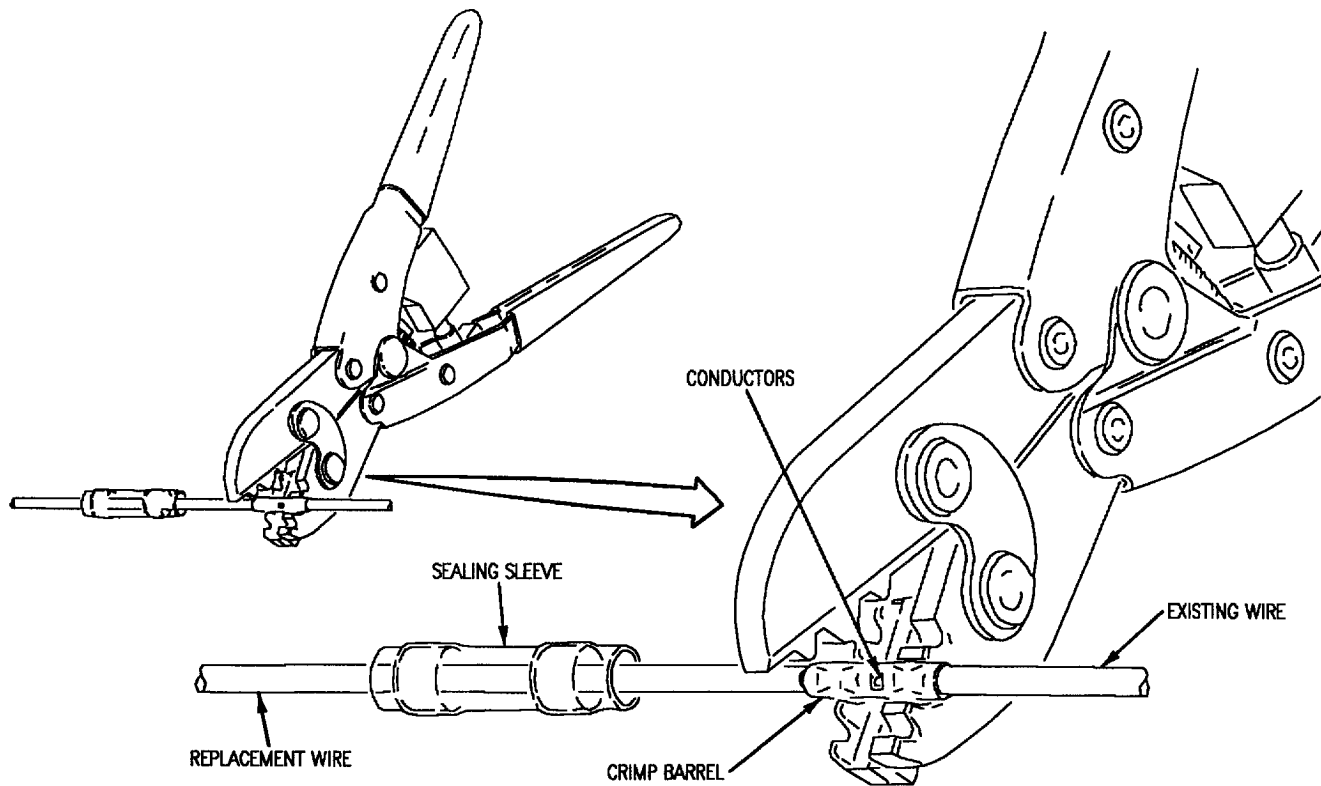


F/A-18-WRM-(321-14)02-SCAN

Figure 16. Installing Crimp Barrel

h. Make sure replacement wire conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool supplied with wire and connector repair set.

i. Make sure existing wire conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool. See figure 17.



F/A-18-WRM-(321-4)02-SCAN

Figure 17. Crimping Wire

j. Install end cap on end of damaged wire.

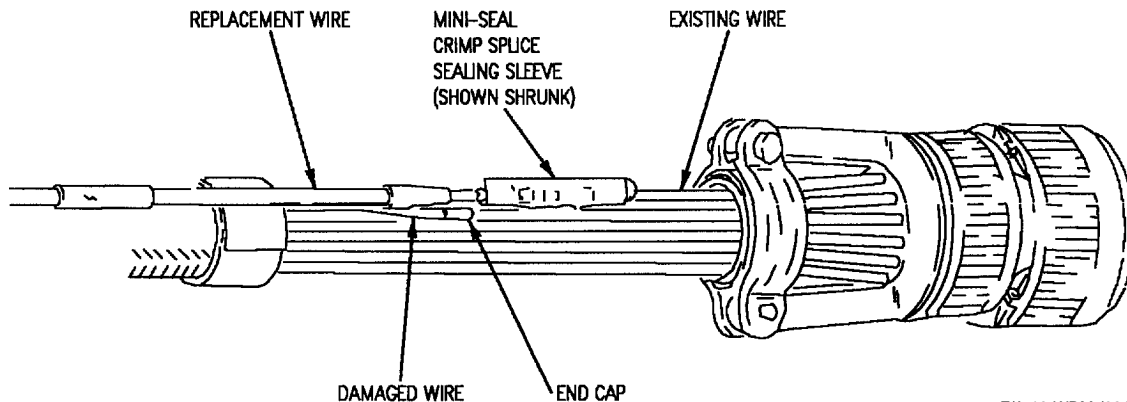
WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

k. Center sealing sleeve over crimp barrel and using heat tool, apply heat starting at one end of sealing sleeve until melted insert flows from end of sleeve then move along sleeve until insert at opposite end of sleeve melts and flows along wire.

l. Shrink end cap on end of damaged wire using heat tool. See figure 18.



F/A-18-WRM-(321-15)02-SCAN

Figure 18. Install End Cap

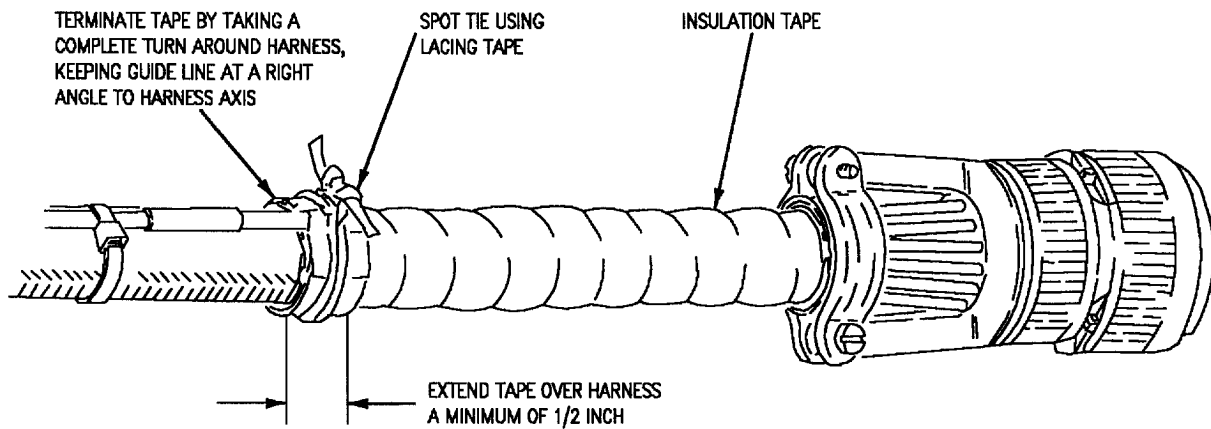
m. Route replacement wire along outside of braided wiring harness and secure using lacing tape spot ties or plastic tiedown straps per table 4.

n. Repeat paragraphs 6b through 6i to open end of replacement wire then go to paragraph 7 to complete repair.

7. COMPLETING BRAIDED WIRING HARNESS REPAIR.

a. Completely wrap exposed repair areas at both ends of replacement wire using insulation tape (MIL-I-46852,TYPE 2,1.000IN.BLK) with a 50 percent overlap.

b. Secure insulation tape with a spot tie using lacing tape. See figure 19.



F/A-18-WRM-(321-16)02-SCAN

Figure 19. Completing Braided Wiring Harness Repair

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****FABRICATION OF SHIELDED WIRE HARNESS TERMINATED WITH ELECTROMAGNETIC
INTERFERENCE (EMI) BACKSHELLS**

Reference Material

None

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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index

None

1. DESCRIPTION.

2. This work package provides procedures for the repair of braided and nonbraided wire harnesses with electromagnetic interference (EMI) backshells.

Materials Required

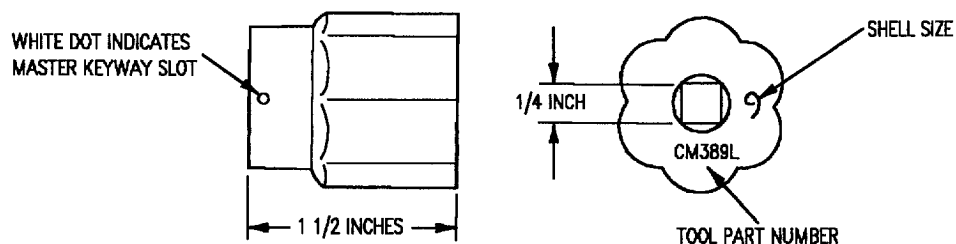
Support Equipment Required

Part Number or Type Designation	Nomenclature	Specification or Part Number	Nomenclature
3308AS100	Repair Set - Wire And Connector	See Table 1 See Table 2 See Table 3 MIL-T-43435TYPE2- SIZE-3 FINISH-C MIL-I-23594, TYPE 2. 1/2IN.WIDE	Silicone Rubber Tape Wire Mesh Tape Plastic Tiedown Strap Tape, Lacing Tape, Insulation

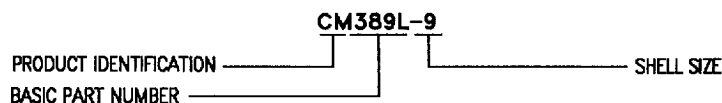
3. **PROCEDURE.**4. **CM ADAPTER TOOLS.**

a. CM adapter tool is shown in figure 1. Select tool part number to shell size from tool data in refer-

ence designation to backshell data index for specific cable clamp.



MIL-C-38999 SERIES 1



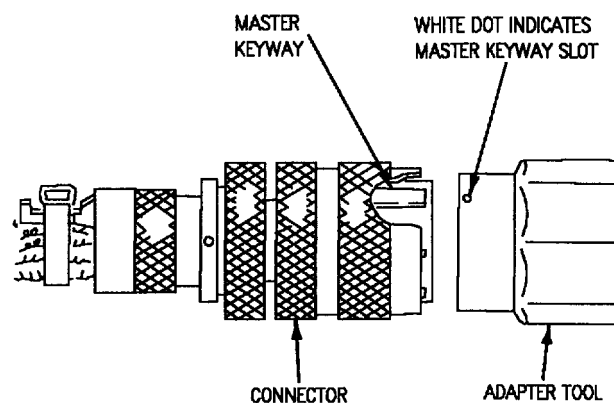
F/A-18-WRM-(500-18)02-CATI

Figure 1. CM Adapter Tool Part Numbering System



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

b. Mate adapter tool to connector. See figure 2.



F/A18-WRM-000-(501-1)01-SCAN 17

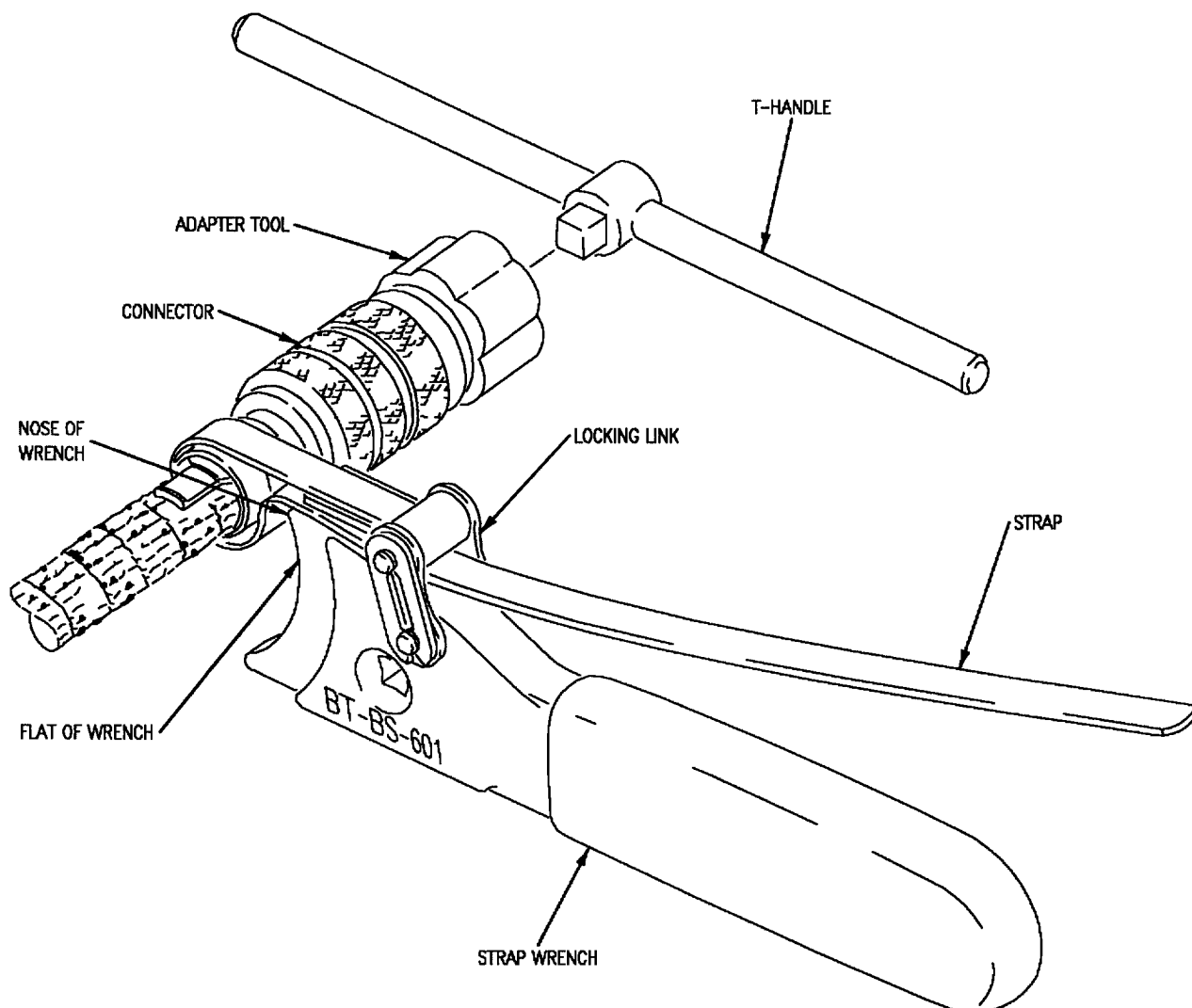
Figure 2. Adapter Tool Mating

5. STRAP WRENCH.

NOTE

a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rests on nose of wrench. See figure 3.

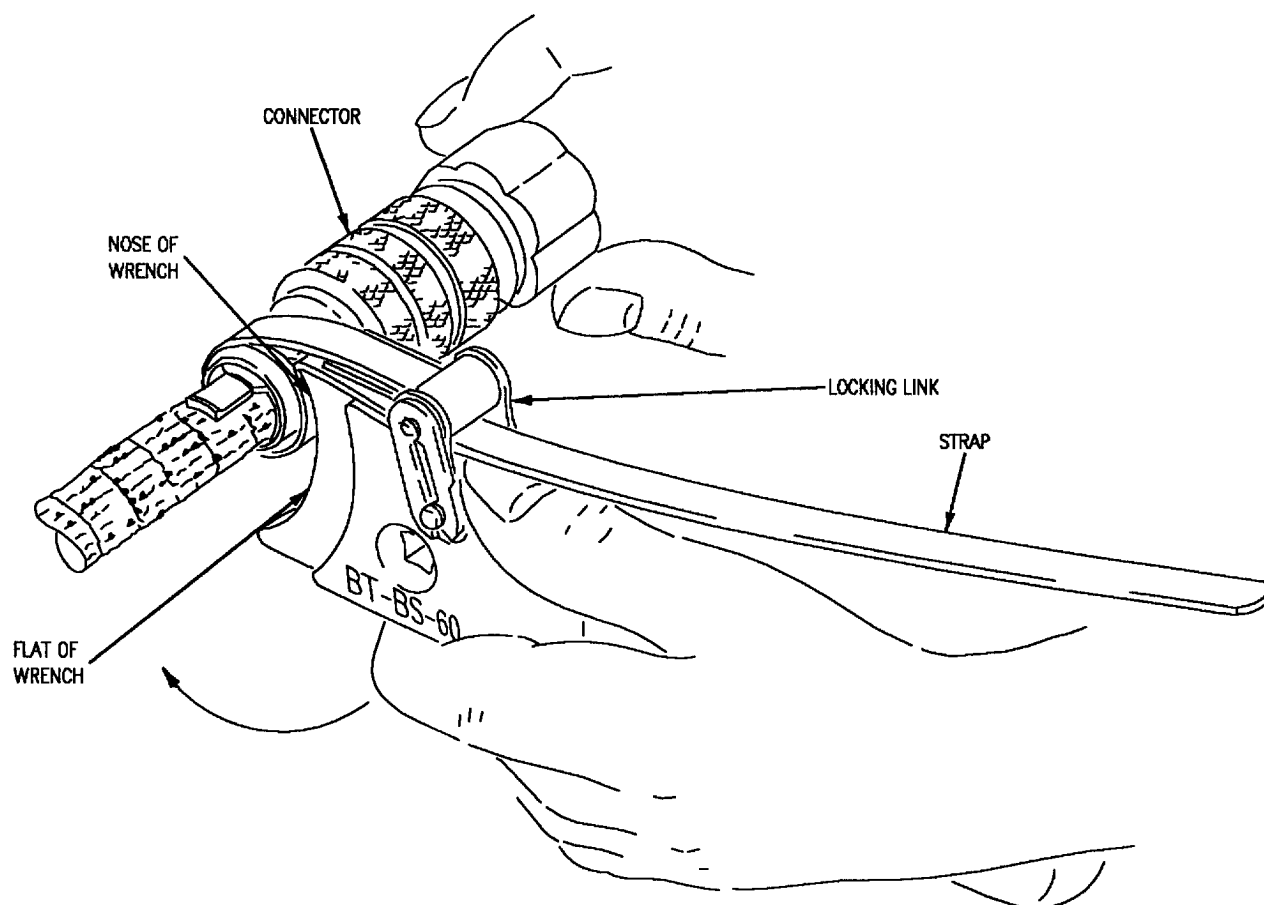
T-Handle can be used for additional gripping force to adapter if required.



F/A18-WRM-000-(281-1)01-SCAN 40

Figure 3. Strap Wrench Setup and Adjustment

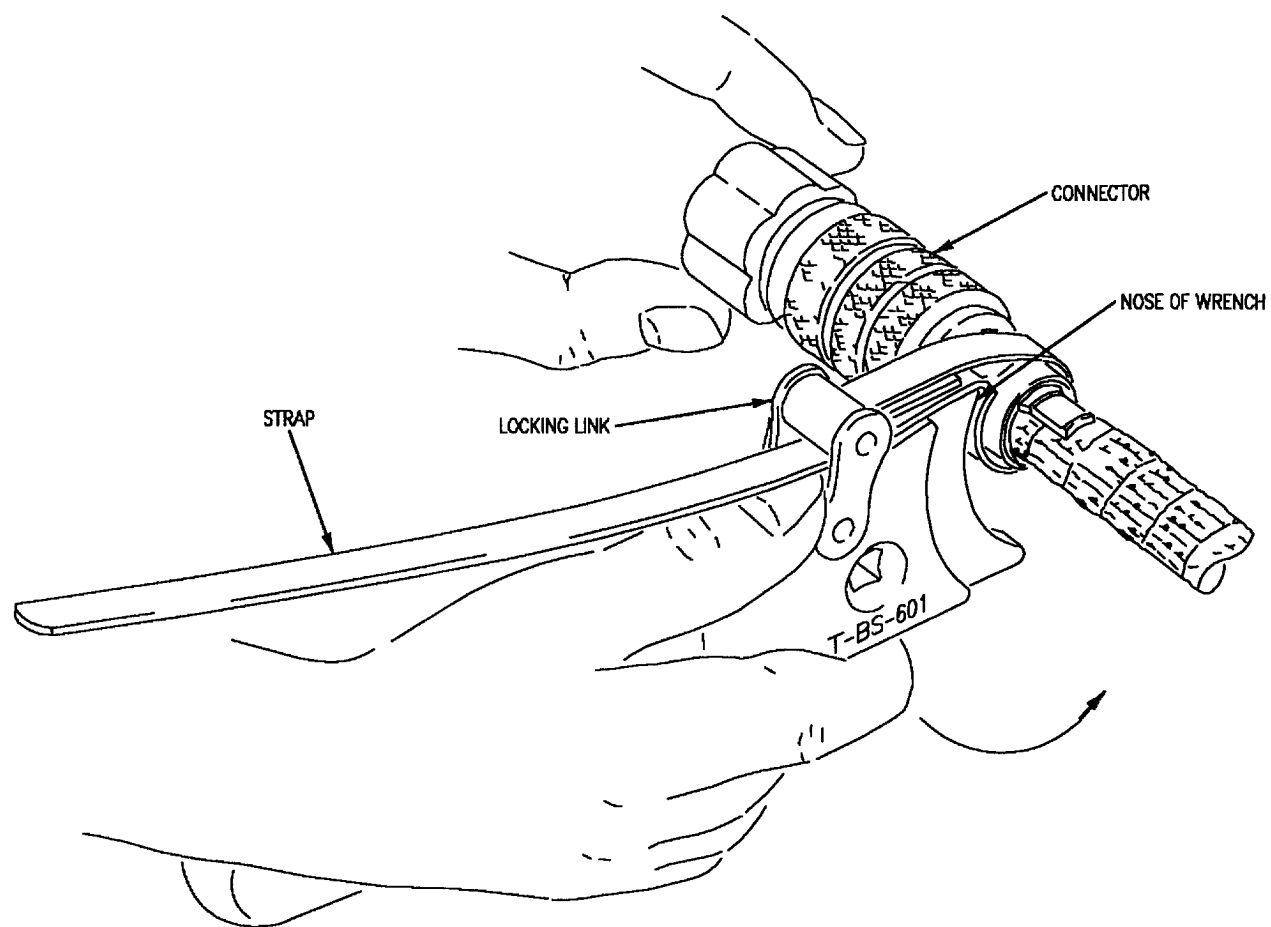
b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector. The clamp and strap are tucked beneath the nose of the wrench and against the flat of the wrench. See figure 4.



18AE-WRM-000-(281-2)01-SCAN 34

Figure 4. Tightening Position of Wrench

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector. See figure 5.

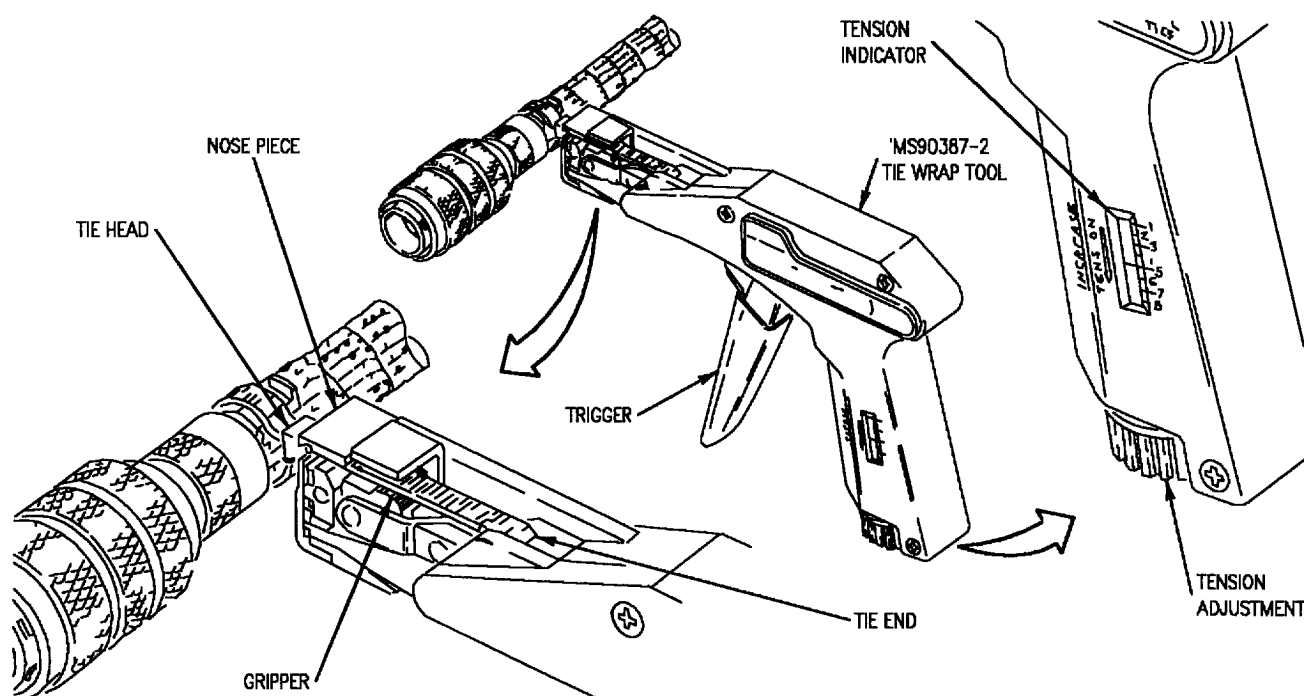


F/A18-WRM-000-(281-3)01-SCAN 34

Figure 5. Loosening Position of Wrench

6. TIE WRAP TOOL.

- a. Adjust tool as specified in figure 6.
- b. Install cable tie around the cable/harness assembly.
- c. Thread tie end through slot in tie head and manually pull tight around harness assembly.
- d. Insert tie end through nose piece of tool and pull against tie head.
- e. Center cable tie in tool slot and over gripper.
- f. Squeeze trigger until cable tie is cut off flush with tie head.
- g. Release trigger and discard cut off end of cable tie.

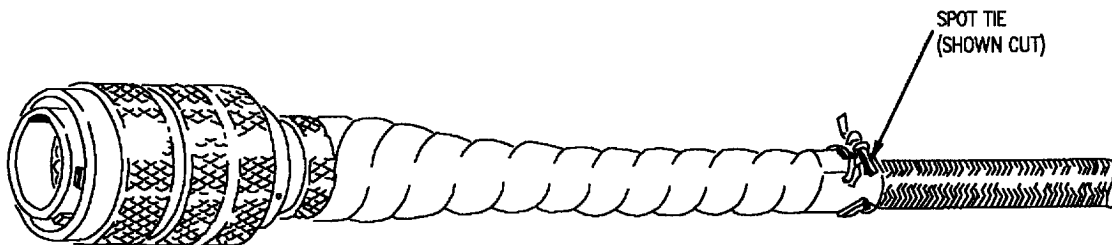


F/A18-WRM-000-(282-1)01-SCAN 28

Figure 6. Tie Wrap Tool

7. DISASSEMBLY PROCEDURE.

a. Remove spot tie from silicone rubber tape boot. See figure 7.

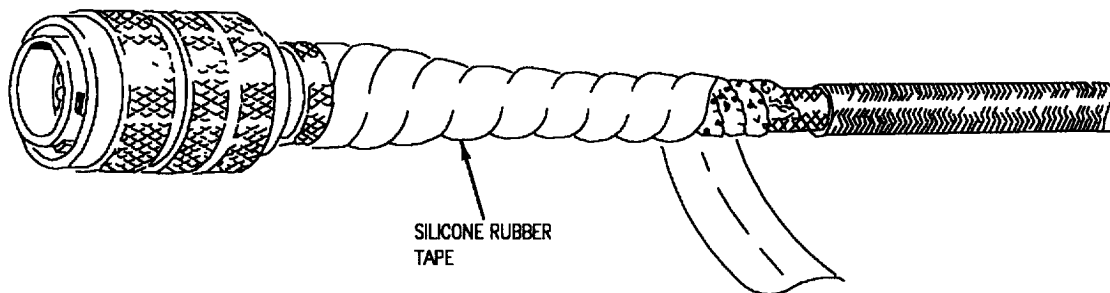


F/A18-WRM-000(283-1)01-SCAN 13

Figure 7. Spot Tie Removal

b. Unwrap or cut silicone rubber tape and remove from the boot area. See figure 8.

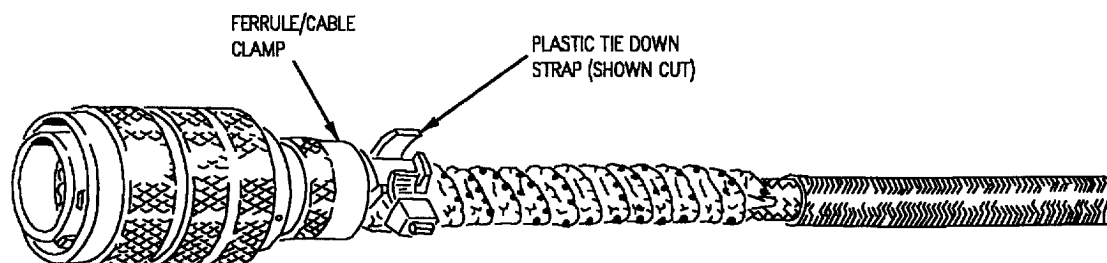
When cutting boot material with a sharp tool, extreme care must be taken not to nick or scrape the wire insulation beneath the cut.



F/A18-WRM-000-(283-2)-SCAN 14

Figure 8. Silicone Rubber Tape Boot Removal

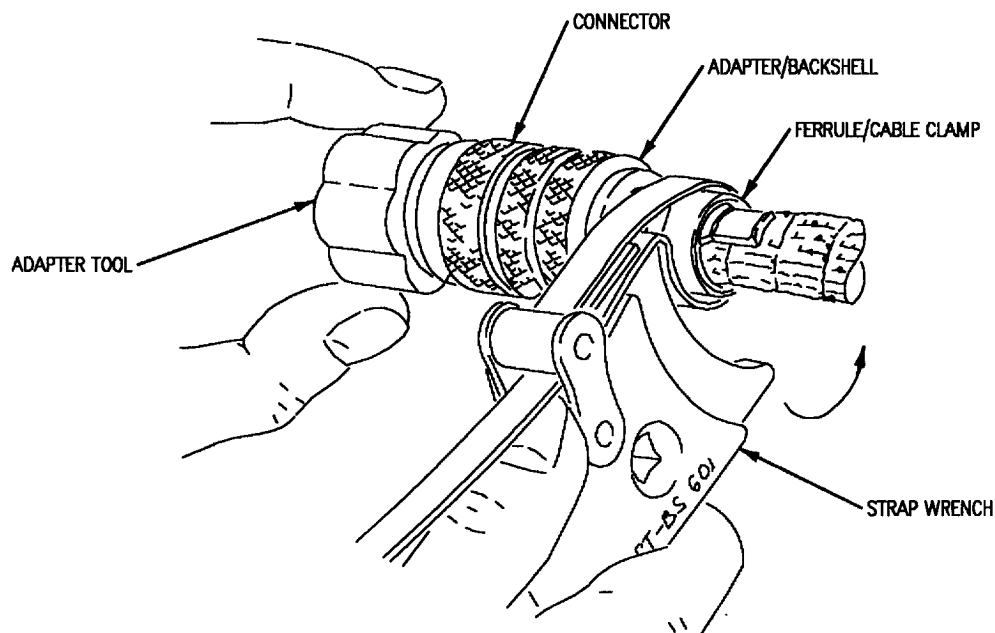
c. Cut and remove plastic tie down strap from ferrule/cable clamp. See figure 9.



F/A18-WRM-000-(283-3)01-SCAN 13

Figure 9. Plastic Tiedown Strap Removal

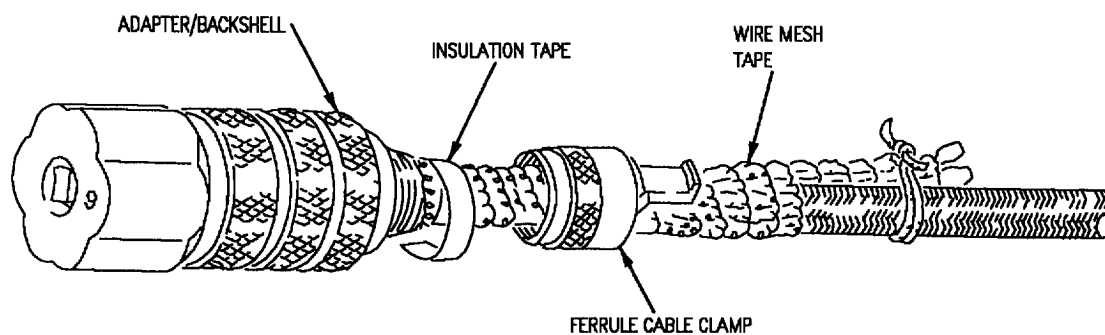
d. Remove ferrule/cable clamp from adapter/back-shell. See figure 10.



F/A18-WRM-000-(281-4)01-SCAN 24

Figure 10. Ferrule/Cable Clamp Removal

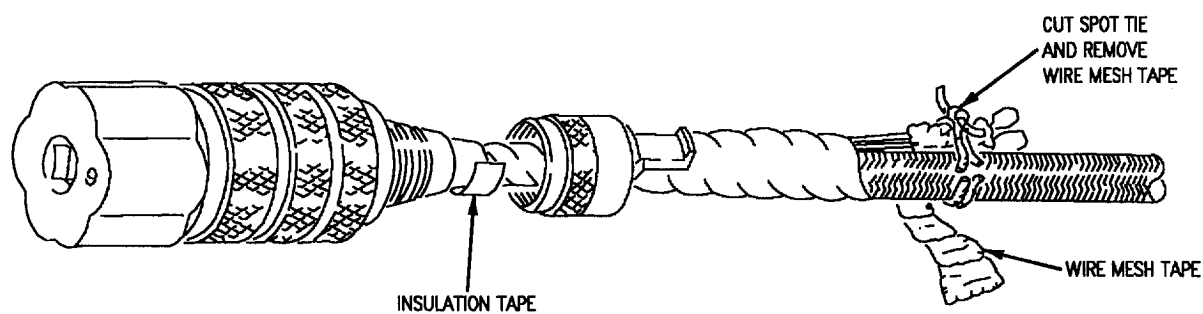
e. Remove insulation tape. See figure 11.



F/A-18-WRM-(1105-1)02-SCAN

Figure 11. Insulation Tape Removal

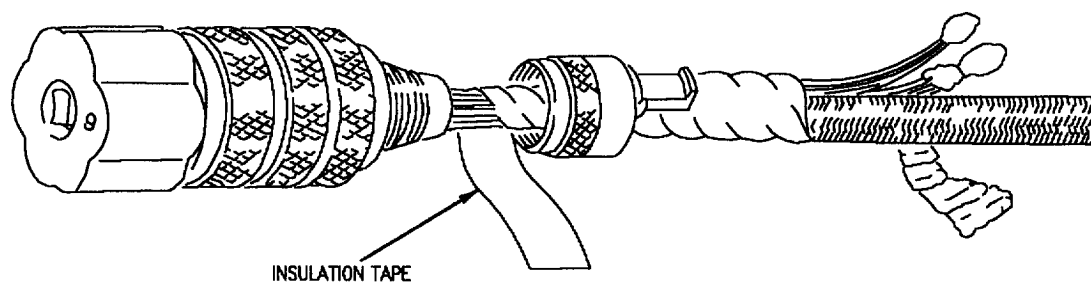
f. Unwrap wire mesh tape. See figure 12.



F/A-18-WRM-(1105-2)02-SCAN

Figure 12. Wire Mesh Tape Removal

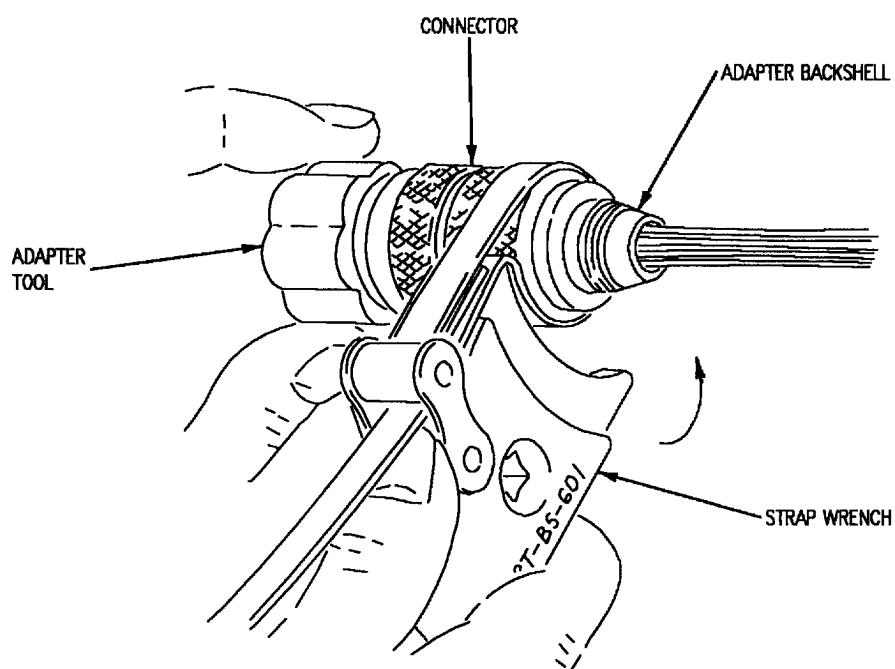
g. Unwrap insulation tape. See figure 13.



F/A-18-WRM-(1105-3)02-SCAN

Figure 13. Insulation Tape Removal

h. Remove adapter/backshell. See figure 14.

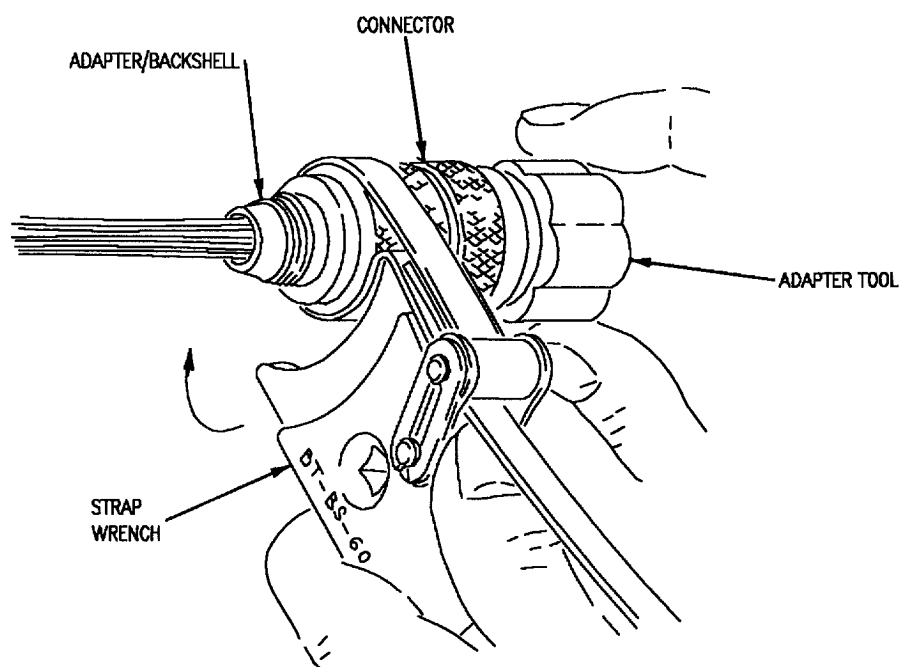


F/A18-WRM-000-(281-5)01-SCAN 25

Figure 14. Adapter/Backshell Removal

8. REASSEMBLY PROCEDURE.

- a. Slide adapter/backshell onto connector and tighten. See figure 15.

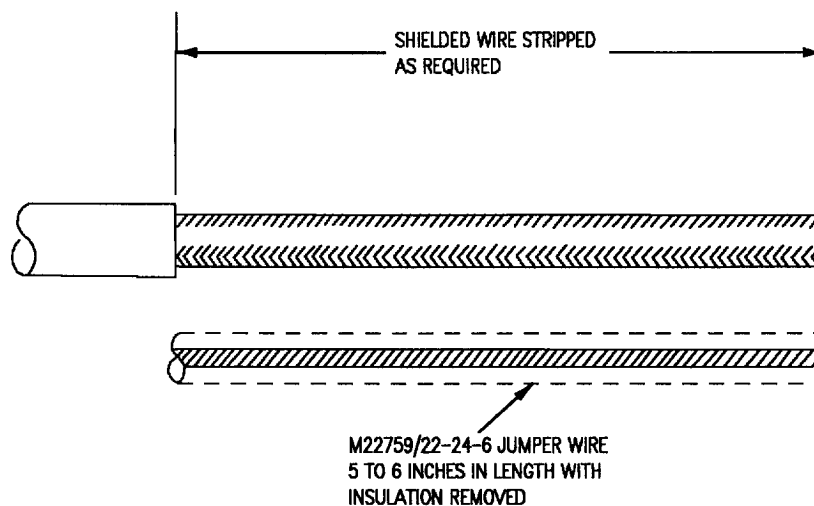


F/A18-WRM-000-(281-6)01-SCAN 25

Figure 15. Installation of Adapter Backshell

9. WIRE PREPARATION.

a. Strip shielded and jumper wires as illustrated. See figure 16.

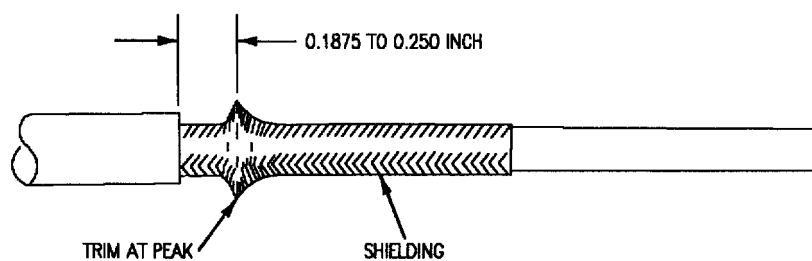


F/A-18-WRM-(1110-1)02-SCAN

Figure 16. Stripping Wire Insulation

b. Hold shielded wire on stripped area 1/4-inch from where the shield is exposed, between the thumb and forefinger of one hand while pushing the remain-

der of the shield toward it with the other hand. See figure 17.



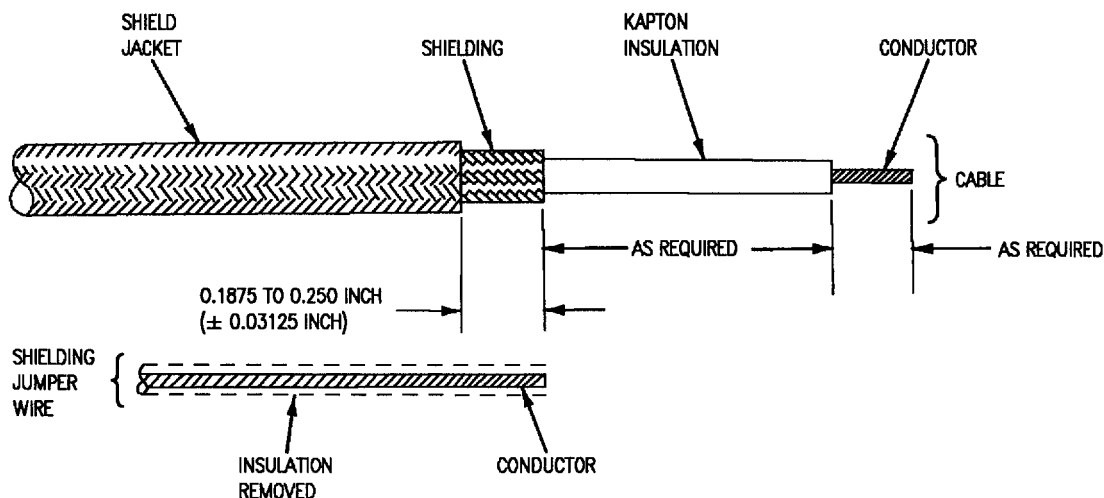
F/A-18-WRM-(1110-2)02-SCAN

Figure 17. Shield Stripping and Removal

NOTE

Shield may be left forward on polyimide insulated wire. Solder sleeve must be put over cable before stripping if shield is not folded back for jumper wire installation.

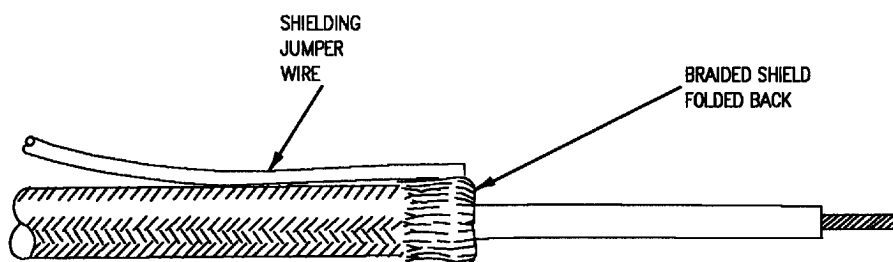
c. Cut the formed bulge at the ridge to leave 3/16 to 1/4-inch of shield exposed. See figure 18.



F/A-18-WRM-(1110-3)02-SCAN

Figure 18. Kapton Wire Setup

d. For nonkapton insulated wire, fold shield back over shielded wire outer jacket. Position end of jumper wire against exposed shield. See figure 19.

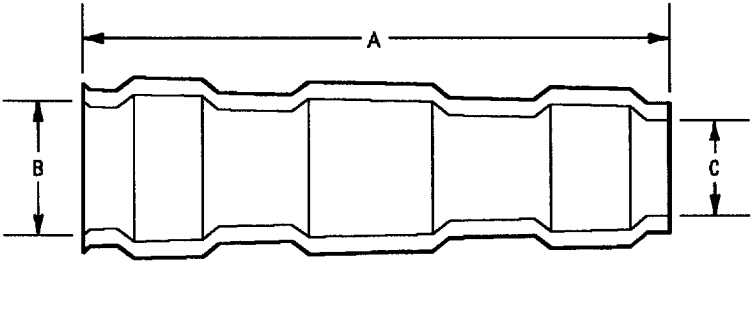


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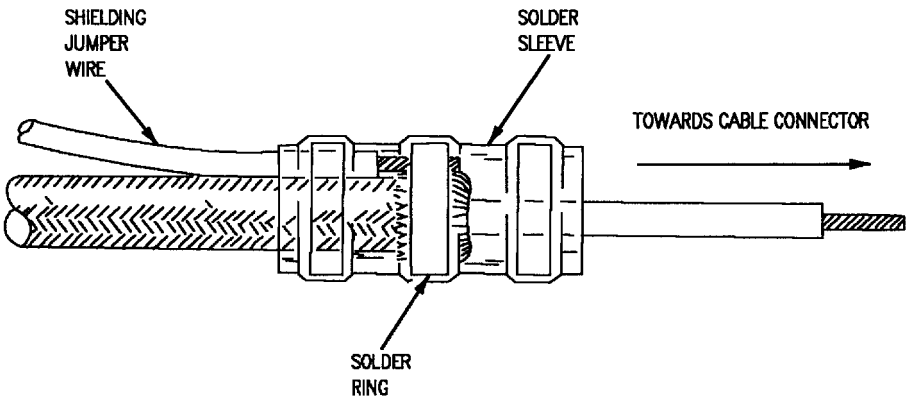
Figure 19. Jumper Wire Positioning

e. Slide the correct solder sleeve over the shield and jumper wire juncture, positioning the solder ring directly over the stripped areas. See Table 1 and figure 20.

Table 1. Shielded Wire Solder Sleeve

			
PART NUMBER	A (INCH)	B (INCH)	C (INCH)
D-108-00	5/8	3/32	5/64
D-108-01	5/8	1/8	7/64
D-108-02	5/8	13/64	3/16
D-108-03	3/4	5/16	9/32

F/A-18-WRM-(1101-1)02-CATI



F/A-18-WRM-(336-3)02-SCAN

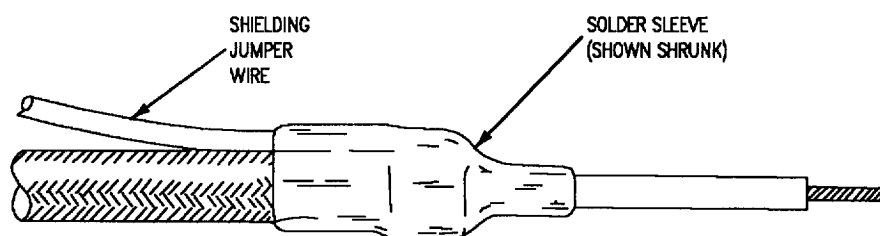
Figure 20. Solder Sleeve Positioning

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

f. Shrink solder sleeve using the HT-900 heat tool with the nitrogen servicing unit. See figure 21.



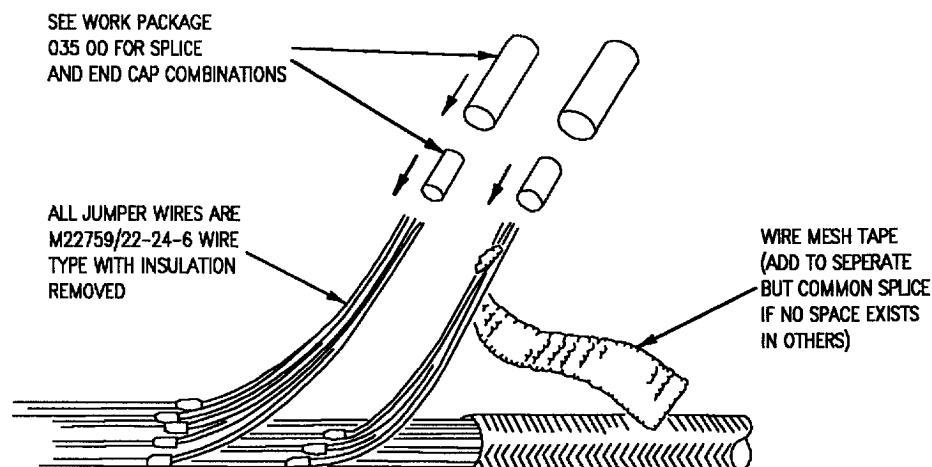
F/A-18-WRM-(336-4)02-SCAN

Figure 21. Solder Sleeve Shrunk in Correct Position

10. **SPLICE AREA TERMINATION.****NOTE**

Stagger splices to prevent splice area enlargement. Separate all splices, and if necessary, thermally isolate splices to prevent heat damage during shrinking process.

a. When 2 or more shielded wires are terminated in a cable assembly the jumper wires are terminated with stub splices and end caps. See figure 22.



F/A-18-WRM-(1110-5)02-SCAN

Figure 22. Jumper Wires Positioned in Harness Assembly

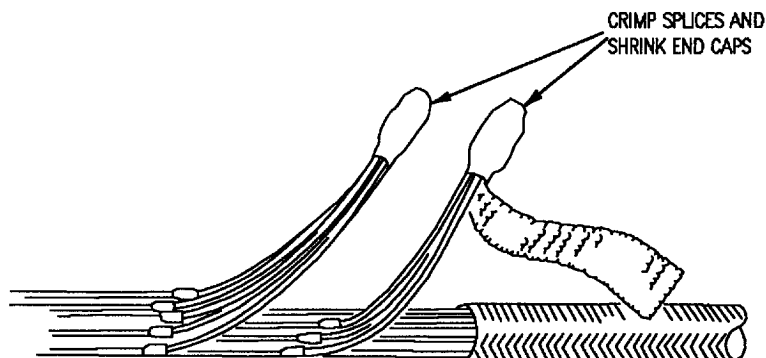
b. Splice the ends of uninsulated jumper wires together. Refer to WP035 00 for splicing procedures.

Table 2. Wire Mesh Tape

PART NUMBER	CAGE	WIDTH (INCH) NOMINAL	THICKNESS (INCH) NOMINAL	WIRE DIAMETER (INCH)
SC61298	0BKF2	1.000	1/64	17/128 (35 GAGE)
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES. TEMPERATURE RANGE: -65° TO +300°F				

c. Complete the shielded jumper wire terminations by splicing the ends together and adding a length of wire mesh tape. If insufficient room exists for adding the wire mesh tape, install an M22759122-24-6 jumper

wire with insulation removed to the last splice and create separate splice for wire mesh tape. See figure 23.

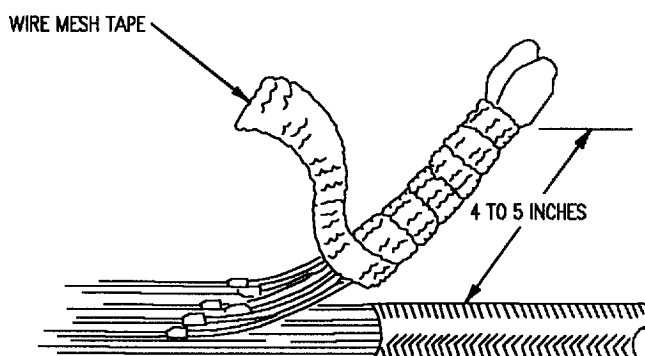


F/A-18-WRM-(1110-6)02-SCAN

Figure 23. Jumper Wires Grouped and Wire Mesh Tape Installed

11. CONNECTOR BOOT TERMINATION

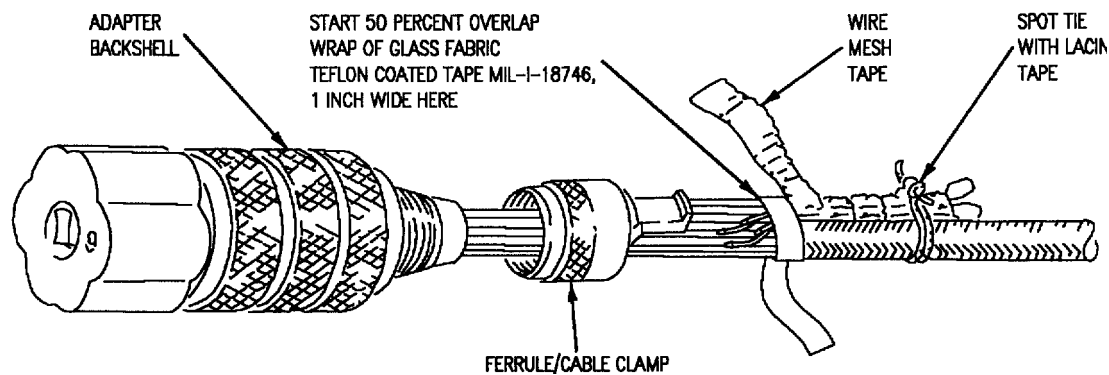
a. Form the spliced jumper wires into a branch breakout and wrap it with the wire mesh tape. See figure 24.



F/A-18-WRM-(1110-7)02-SCAN

Figure 24. Jumper Wire Branch Terminated with Wire Mesh Tape

b. Lay the jumper wire branch back against the cable assembly and spot tie with lacing tape. See figure 25.

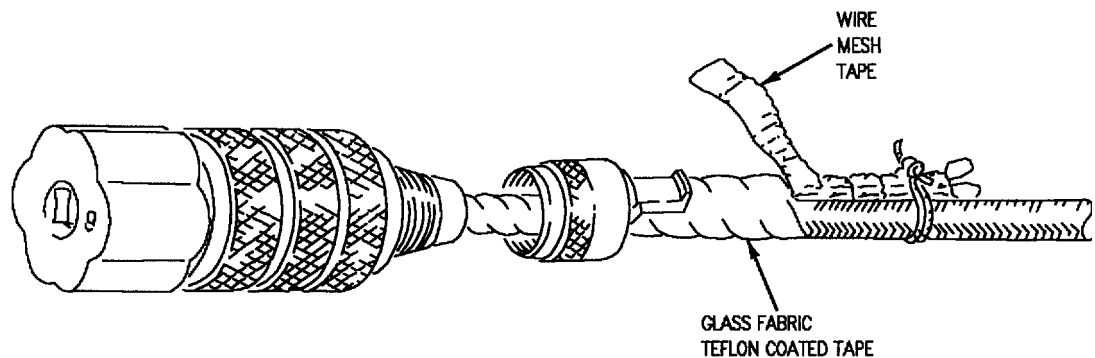


F/A-18-WRM-(1105-4)02-SCAN

Figure 25. Jumper Wire Branch Laid Parallel and Spot Tied

c. Apply a barrier of teflon coated, adhesive tape MIL-I-23594 TYPE2, 1/2IN.WIDE, from the splice between the harness and the jumper wires to the EMI

backshell. Spiral wrap the tape, 50 percent overlap around the bundle. See figure 26.



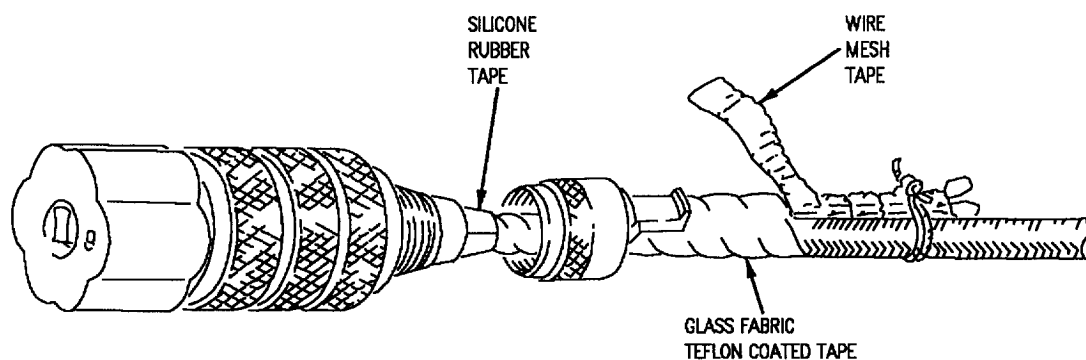
F/A-18-WRM-(1105-5)02-SCAN

Figure 26. Barrier Tape Installation

Table 3. Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-1-46852, TYPE 2, 1.000IN. BLK	81349	1.000
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE; -178° TO +500°F		

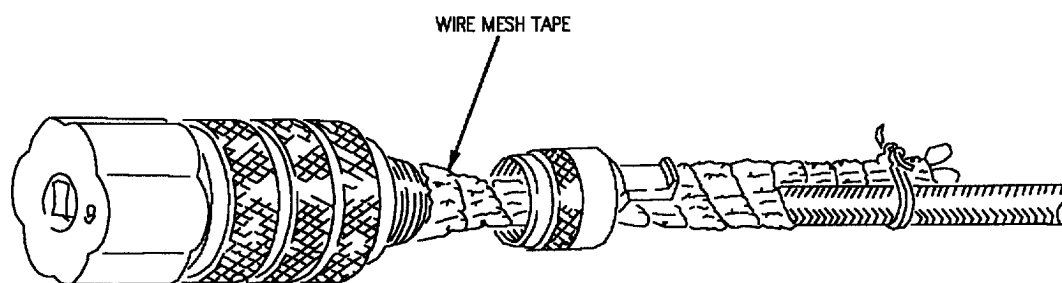
d. Build up a tapered area of silicone rubber tape behind the adapter/backshell. See figure 27.



F/A-18-WRM-(1105-6)02-SCAN

Figure 27. Silicone Rubber Tape Buildup

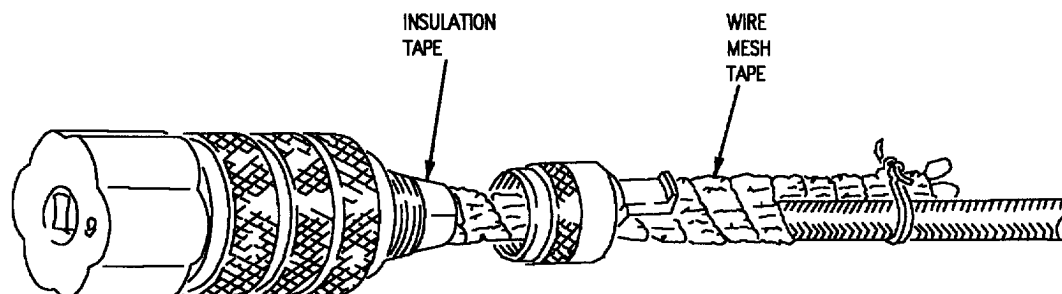
e. Wrap wire mesh tape with 50 percent overlap. See figure 28.



F/A-18-WRM-(1105-7)02-SCAN

Figure 28. Wire Mesh Tape Wrap

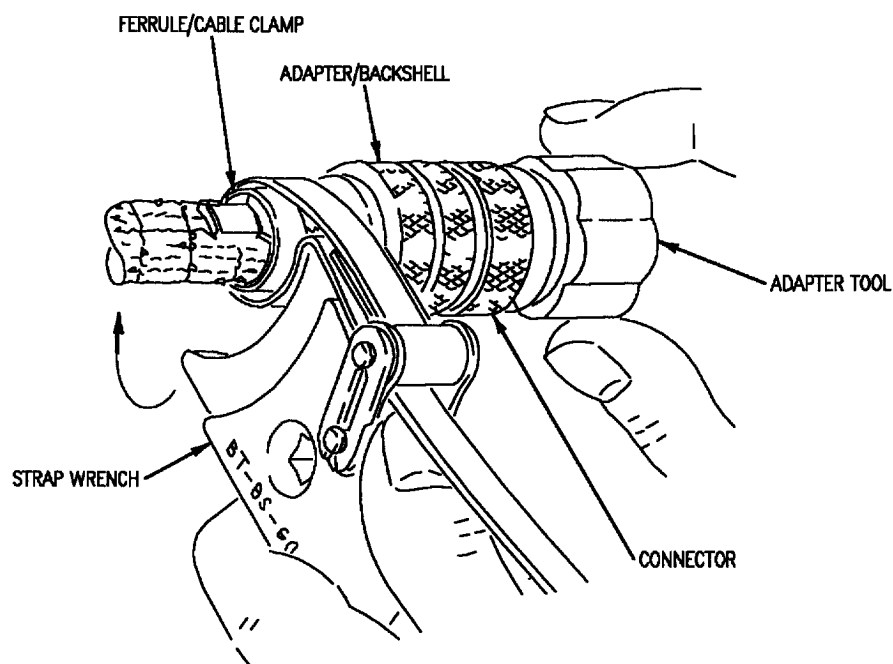
f. Secure wire mesh tape wrap with insulation tape. See figure 29.



F/A-18-WRM-(1105-8)02-SCAN

Figure 29. Securing Wire Mesh Tape Wrap

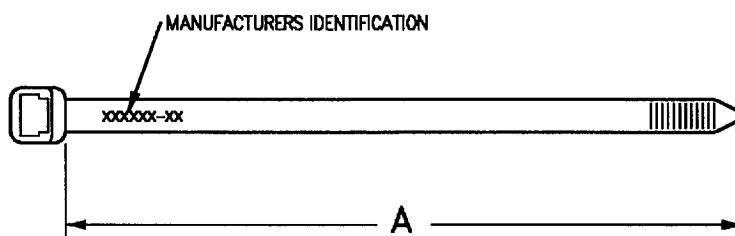
g. Install ferrule/cable clamp and tighten with strap wrench. See figure 30.



F/A18-WRM-000-(281-7)01-SCAN 25

Figure 30. Ferrule/Cable Clamp Installation

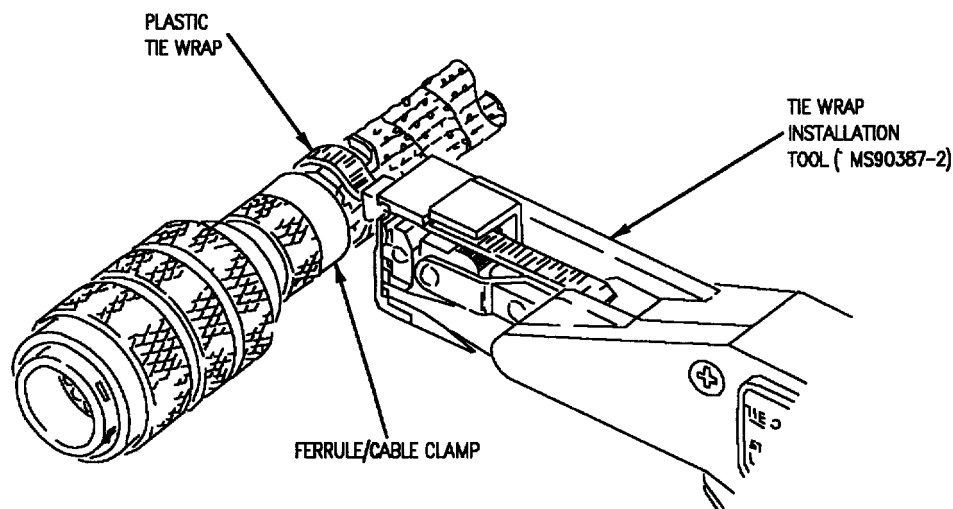
Table 4. Plastic Tiedown Strap



F/A-18-WRM-(510-1)01-CATI

PART NUMBER	LENGTH A (INCH)	CONNECTOR SHELL SIZE	MS90387-1 TOOL TENSION SETTING	MILITARY SPECIFICATION
PLT-2S-CP30	6-1/32	8 THRU 19	6	MIL-S-23190
PLT4H-C30	12.00	20 THRU 25	8	MIL-S-23190
SST-2H-C30	7-1/2	20 THRU 25	8	MIL-S-23190
TEMPERATURE RANGE: -65° TO +300°F				

h. Install plastic tie wrap with tie wrap installation tool. See figure 31.

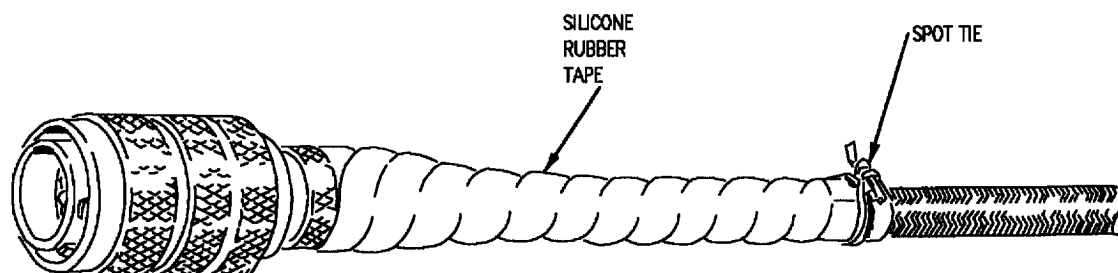


F/A18-WRM-000-(281-8)01-SCAN 21

Figure 31. Securing Ferrule/Cable Clamp

i. Wrap wire mesh tape with a 50 percent overlap of silicone rubber tape and secure the end with a spot

tie of MIL-T-43435 TYPE2SIZE-3FINISH-C lacing tape. See figure 32.



F/A18-WRM-00-(283-11)02-SCAN

Figure 32. Securing Silicone Rubber Tape Boot

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

SPLICE COMBINATIONS AND END CAPS

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Crimping Tools	WP013 00
Stripping Tools	WP010 00
Wire Type List	WP004 00

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Wire Combinations for Splice and End Caps, Table 2	8

Record of Applicable Technical Directives

None

1. DESCRIPTION.

2. Parallel connectors listed in tables 1 and 2 are electrical crimp style tubular sleeves used to fabricate electrical splices. Electrical splices described in this work package are of two types, the stub and the lap splice (Butt splice).

3. The D-609-() (see table 1) is a seamless, tubular copper alloy, electrical crimp style parallel connector with a temperature range of -65° to +350° F.

4. The connectors listed in Table 2 are electrical crimp style parallel connectors made of copper alloy either tin or nickel plating, with a temperature range of -65° to +350°F (tin plated) and -65° to +650°F (nickel plated).

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector

Support Equipment Required (Continued)

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
TC 400() CRN	End Cap, See Table 1
M23053/4-XXX-0	Sleeving
See Table 1	Parallel Connectors
See Table 2	Parallel Connectors
Tetraetch20ZBT	Etching Solution
CCC-C-440 TYPE 1,	Cheesecloth
CLASS 1	Commercial
MMS409	Cleaning Compound

5. **PROCEDURE FOR SPLICING.** See figure 1.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE

Splices must be staggered to limit enlargement of bundle, and provide constant diameter of splice area.

Twist stripped wire ends when necessary.

a. Strip wire insulation 1/2 inch to permit insertion into splice (detail A).

b. Insert wires in splice per table 1 and (detail A).

NOTE

Make sure wires extend through opposite end of splice.

c. Center splice in crimping tool and crimp in place.

d. Trim all wires flush with splice (detail A).

e. On stub splice, install correct end cap as shown on table 1, and (detail B).

NOTE

On single conductor 22 gage wire and smaller, modify a piece of M23053/4XXX-0 sleeving for build up of smaller wire before final covering of lap splice.

f. On lap splice, locate shrink sleeve over splice (detail B).

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

NOTE

After shrinking end caps/sleeve, inspect for punctures, and make sure caps/sleeve are completely sealed.

Using heat tool with nitrogen servicing unit, shrink end caps and sleeves in place (detail B).

h. For correct and incorrect crimping of splices, see figure 2.

6. PROCEDURE FOR CAPPING UNUSED WIRES. See figure 1, detail C.

- a. Cut wire 1 inch from braid.

WARNING

Etching solution is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- b. Submerge wires in etching solution for 10 seconds.

- c. Rinse wires in running water for 5 to 10 seconds to neutralize etching solution.

WARNING

Cleaning compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- d. Rinse wires a second time in cleaning compound for 5 to 10 seconds.

- e. Dry wires with shop air or clean cheesecloth.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

NOTE

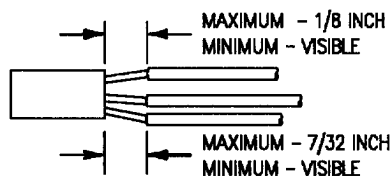
Color of insulation will be beige (light brown) to dark brown.

- f. Shrink end cap TC 400 () CRN (table 1) on wire using heat tool and nitrogen servicing unit.

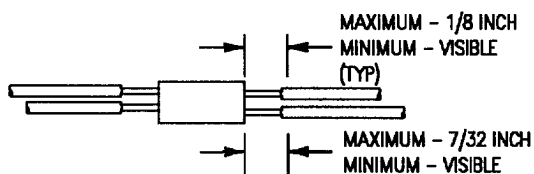
- g. Allow wire to cool.

(A) STUB SPLICE

WIRES MUST PROTRUDE AND THEN
BE TRIMMED FLUSH AT THIS END



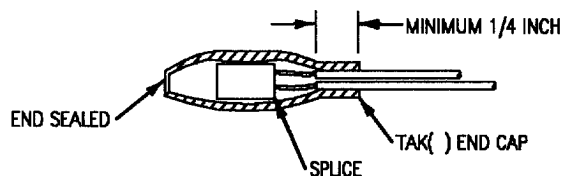
(B) LAP SPLICE



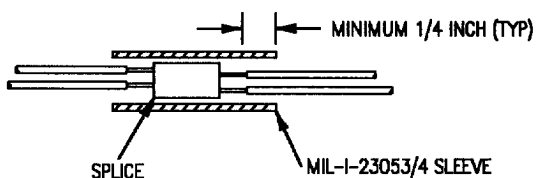
WIRE ENDS MUST BE FLUSH WITH THE END OF THE
SPLICE TO A MAXIMUM PROTRUSION OF 3/32 INCH

DETAIL A

(A) STUB SPLICE



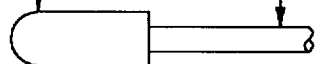
(B) LAP SPLICE



DETAIL B

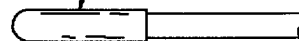
END CAP (BEFORE SHRINKING)

UNUSED WIRE



BEFORE SHRINKING

END CAP SHRUNK

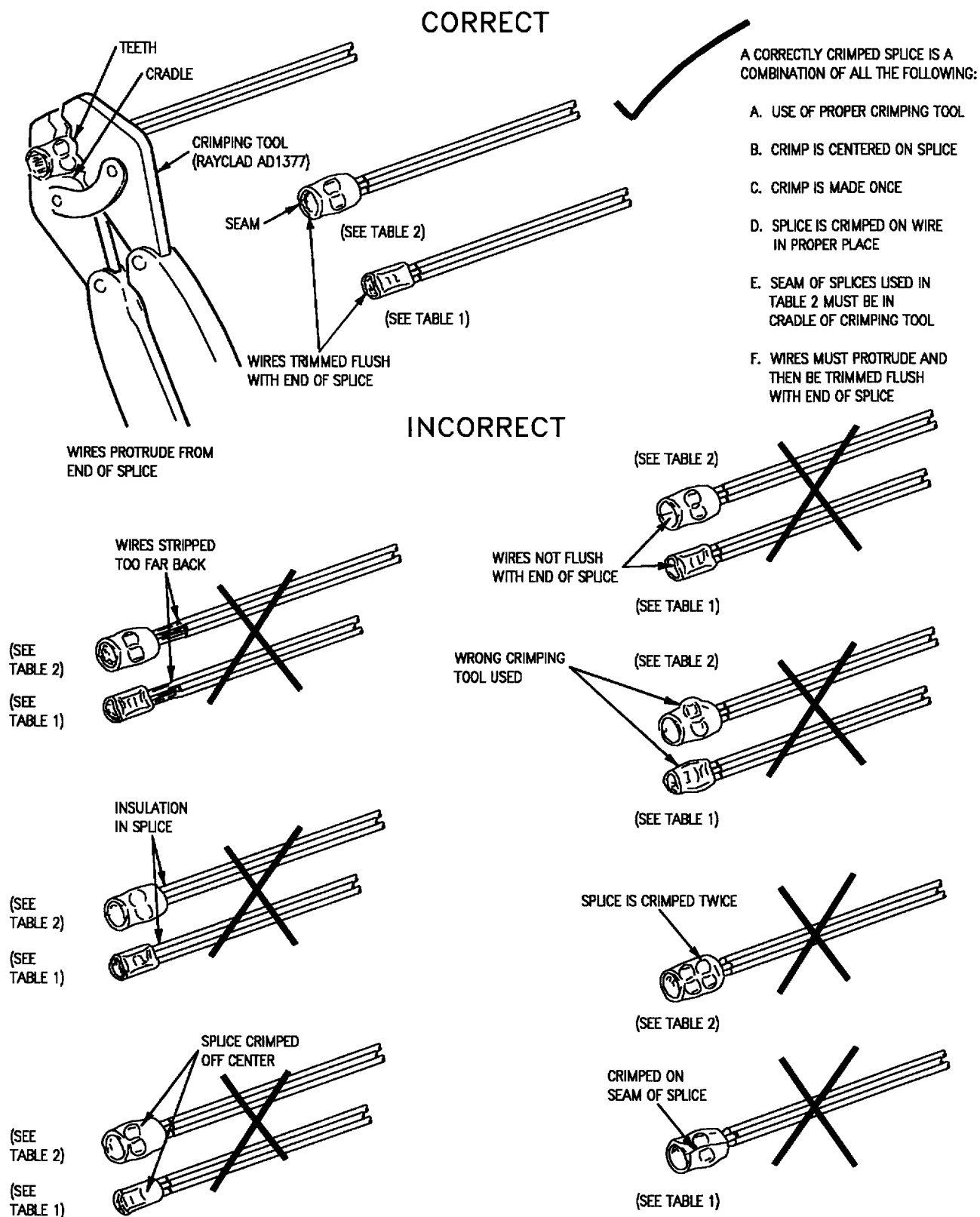


AFTER SHRINKING

DETAIL C

F/A-18-WRM-(808-1)02-CAT1

Figure 1. Splice Combinations and End Caps



F/A-18-WRM-(808-2)02-CAT1

Figure 2. Typical Splice Comparisons

Table 1. Wire Combinations for D-609-() Splice and TAK () End Caps

WIRE COMBINATION		PRIMARY	
GAGE	QTY	SPLICE	END CAP
18	2-3	D-609-05	TAK 3/16
16	2	D-609-05	TAK 3/16
16 20	1 3	D-609-05	TAK 3-16
20	3-4	D-609-05	TAK 3/16
16 20	1 2	D-609-05	TAK 3/16
16 20	1-2 1	D-609-05	TAK 3/16
20 22	1 5	D-609-05	TAK 3/16
22	4-7	D-609-05	TAK 3/16
20 22	1-3 3	D-609-05	TAK 3/16
16 22	1-2 2	D-609-05	TAK 3/16
20 22	2-3 1	D-609-05	TAK 3/16
16 22	1-2 1	D-609-5	TAK 3/16
18 22	1 1	D-609-5	TAK 3/16
16 20 22	1 1 1	D-609-5	TAK 3/16
22 24	1 4-8	D-609-5	TAK 3/16
22 24	1-2 3-9	D-609-5	TAK 3/16
22 24	2-5 1-4	D-609-5	TAK 3/16
20 22 24	1-2 2 1	D-609-5	TAK 3/16
20 24	2 1	D-609-5	TAK 3/16
16 24	1 1	D-609-5	TAK 3/16
22 26	1-2 3-4	D-609-5	TAK 3/16

Table 1. Wire Combinations for D-609-() Splice and TAK () End Caps (Continued)

WIRE COMBINATION		PRIMARY	
GAGE	QTY	SPLICE	END CAP
20 26	2 2	D-609-5	TAK 3/16
22 26	3-5 1	D-609-5	TAK 3/16
22 24	1 1	D-609-3	TAK 1/8
24	2	D-609-3	TAK 1/8
24	3	D-609-3	TAK 1/8
22 26	1 2	D-609-3	TAK 1/8
26	2	D-609-3	TAK 1/8
26	4	D-609-3	TAK 1/8
20	2	D-609-04	TAK 3/16
20 22	1 1	D-609-04	TAK 3/16
22	2	D-609-04	TAK 3/16
22	3	D-609-04	TAK 3/16
24 22	2 1	D-609-04	TAK 3/16
24 22	3 1	D-609-04	TAK 3/16
24 22	4 1	D-609-04	TAK 3/16
20 24	1 1	D-609-04	TAK 3/16
24	4	D-609-04	TAK 3/16
22 26	1 4	D-609-04	TAK 3/16
20 26	1 3	D-609-04	TAK 3/16
22 26	2 2	D-609-04	TAK 3/16
24 26	3 1	D-609-04	TAK 3/16
20 22 26	1 1 1	D-609-04	TAK 3/16
22 24 26	1 1 1	D-609-04	TAK 3/16

Table 1. Wire Combinations for D-609-() Splice and TAK () End Caps (Continued)

WIRE COMBINATION		PRIMARY	
GAGE	QTY	SPLICE	END CAP
20	1	D-609-04	TAK 3/16
26	1		
26	5-7	D-609-04	TAK 3/16
TEMPERATURE RANGE		-65° TO +350°F	-67° TO +347°F

Table 2. Wire Combinations for Splice and End Caps



SPLICE		PRIMARY		ALTERNATE		HEAT OR CRIMP
GAGE	QUANTITY	SPLICE	END CAP	SPLICE	SLEEVE	TOOL
8	1	NONE	TC 400() CRN	NONE	NONE	HT-900
10	1	NONE	TX 400() CRN	NONE	NONE	HT-900
 10	2	34319	6039-25-P	327041	MMS-819A	HT-900
10	3	34319	6039-25-P	327041	MMS-819A	HT-900 69062
12	1	NONE	TC 400() CRN	NONE	NONE	HT-900
12	3	34318	D300-18	2-34318	MMS-819A	HT-900 69355
14	1	NONE	TC 400() CRN	NONE	NONE	HT-900
14	2	34138	D300-12	323754	MMS-819A	HT-900 49935
 14	3	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
14	4	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
16	1	NONE	TC 400() CRN	NONE	NONE	HT-900
16	3	34318	D300-12	323754	MMS-819A	HT-900 49935

Table 2. Wire Combinations for Splice and End Caps (Continued)



SPLICE		PRIMARY		ALTERNATE		HEAT OR CRIMP
GAGE	QUANTITY	SPLICE	END CAP	SPLICE	SLEEVE	TOOL
16	4	34318	D300-12	323754	MMS-819A	HT-900 49935
 16	5	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
16	6	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
16	7	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
16	9	34319	6039-25-P	327041	MMS-819A	HT-900 69062
16	10	34319	6039-25-P	327041	MMS-819A	HT-900 69062
20	1	NONE	TC 400() CRN	NONE	NONE	HT-900
20	5	34138	D300-12	323754	MMS-819A	HT-900 49935
20	6	34138	D300-12	323754	MMS-819A	HT-900 49935
20	7	34138	D300-12	323754	MMS-819A	HT-900 49935
20	8	34138	D300-12	323754	MMS-819A	HT-900 49935
20	9	34138	D300-12	323754	MMS-819A	HT-900 49935
20	10	34138	D300-12	323754	MMS-819A	HT-900 49935
20	11	34138	D300-12	323754	MMS-819A	HT-900 49935
20	13	34138	D300-18	2-34318-1	MMS-819A	HT-900 69355
20	14	34138	D300-18	2-3418-1	MMS-819A	HT-900 69455

Table 2. Wire Combinations for Splice and End Caps (Continued)

SPLICE		PRIMARY		ALTERNATE		HEAT OR CRIMP
GAGE	QUANTITY	SPLICE	END CAP	SPLICE	SLEEVE	TOOL
22	1	NONE	TC 4001() CRN	NONE	NONE	HT-900
22	8	34138	D300-12	323754	MMS-819A	HT-900 49935
22	9	34138	D300-12	323754	MMS-819A	HT-900 49935
22	10	34138	D300-12	323754	MMS-819A	HT-900 49935
22	11	34138	D300-12	323754	MMS-819A	HT-900 49935
22	13	34138	D300-12	323754	MMS-819A	HT-900 49935
24	1	NONE	TC 400() CRN	NONE	NONE	HT-900
24	11	34138	D300-12	323754	MMS-819A	HT-900 49935
24	12	34138	D300-12	323754	MMS-819A	HT-900 49935
24	13	34138	D300-12	323754	MMS-819A	HT-900 49935
10 14	1 1	34318	D300- 18	2-34318-1	MMS-819A	HT-900 69355
10 12	1 2	34319	D300-19	6039-25-P	MMS-819A	HT-900 69062
12 3 16	1 2	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
16 8	1 2	34320	6039-37-P	327042	MMS-819A	HT-900 69062
16 12	1 2	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355
20 22	1 1	34130	D300-12	323754	MMS-819A	HT-900 49935

Table 2. Wire Combinations for Splice and End Caps (Continued)

SPLICE		PRIMARY		ALTERNATE		HEAT OR CRIMP
GAGE	QUANTITY	SPLICE	END CAP	SPLICE	SLEEVE	TOOL
20 22	1 7	34138	D300-12	323754	MMS-819A	HT-900 49935
20 22	1 8	34138	D300-12	323754	MMS-819A	HT-900 49935
20 22	1 9	34318	D300-12	3237545-P	MMS-819A	HT-900 49935
20 22	1 10	34318	D300-12	323754	MMS-819A	HT-900 49935
20 24	1 10	34138	D300-12	323754	MMS-819A	HT-900 49935
20 22	1 11	34138	D300-12	323754	MMS-819A	HT-900 49935
20 24	1 11	34138	D300-12	323854	MMS-819A	HT-900 49935
22 16	1 2	34138	D300-12	32754	MMS-819A	HT-900 49935
22 20	1 10	34138	D300-12	323754	MMS-819A	HT-900 49935
22 24	1 10	34138	D300-12	323754	MMS-819A	HT-900 49935
22 24	1 11	34138	D300-12	323754	MMS-819A	HT-900 49935
24 20	1 10	34138	D300-12	323754	MMS-819A	HT-900 49935
26 16	1 4	34138	D300-12	323754	MMS-819A	HT-900 49935
 8 12	2 2	35187	6039-37-P	327044	MMS-819A	HT-900 69062
8 16	2 2	34320	6039-37-P	327042	MMS-819A	HT-900 69062
12 16	2 2	34318	D300-18	2-34318-1	MMS-819A	HT-900 69355

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

INSTALLATION OF TERMINALS, RING TONGUE CRIMPED BARREL

Title	WP Number
Installation of Ground Terminals, Ring Tongue Crimped Barrel	036 01
Installation of Miscellaneous Terminals, Ring Tongue Crimped Barrel	036 02

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****INSTALLATION OF GROUND TERMINALS, RING TONGUE CRIMPED BARREL**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 8	31 May 86	F/A-18 Changes to Power Lever Control Actuator Circuit (WUC 42400) (ECP MDA F/A-18-00041)	1 Sep 86	-
F18 AFC 27	-	Improvement of Leading Edge Flap Design (ECP MDA-F/A-18-00044)	1 Sep 86	-
F18 AFC 39	30 Jun 93	Addition of a Second Shoot Light Power Supply Connector (WUC 44314)	1 Mar 94	-
F18 AFC 48	-	Alternating Current Bus Isolation (ECP MDA-F/A-18-00121)	1 Dec 88	-
F18 AFC 49	-	Addition of Sealed Lead Acid Battery (ECP MDA-F/A-18-00074)	1 Sep 86	-
F18 AFC 52	21 Nov 86	Cockpit Avionics Cooling Fan Thermal Protector Change (ECP-MDA-F/A-18-0112)	1 Mar 87	-
F18 AFC 53	-	Elimination of Tanks 1 and 4 Sneak Circuit, Tank 4 Motive Flow Shutoff Valve, and Raised Inverted Baffle (ECP MDA-F/A-18-0005/C1)	1 Sep 86	-
F18 AFC 54	-	Incorporation of Video Recorder Set	1 Oct 93	-
F18 AFC 57	-	Improved Aircraft Monitor and Control (AMAC), Installation of	1 Oct 93	-
F18 AFC 74	-	Installation of Aircraft Wiring Provisions for Additional Weapons Capability	1 Dec 88	-
F18AFC 81	-	Secondary Power System, APU Surge Control Valve, Aircraft Wiring; Modification of (WUC 4241170)	1 Oct 93	-

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 90	-	Automatic Battery Cutoff (ECP-MDA- F/A-18-00165R1)	15 Jan 90	-
F18 AFC 114	-	Laser Target Designator/Ranger (LTD/R), Incorporation of	1 Oct 93	-

1. INTRODUCTION.

2. This work package contains the information and procedures required for the installation of ring tongue crimped barrel terminals.

Support Equipment Required

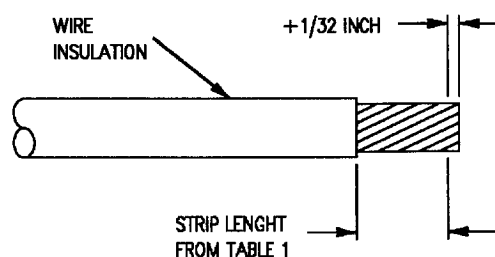
Part Number or Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
See Table 1	Terminal Crimping Data

b. Identify applicable cable/wiring assembly in volumes. A1-F18AC-WRM-010 through A1-F18AC-WRM-070 then refer to Wire Type List (WP004 00) for correct wire type and strippers.

c. Strip wire to dimension specified in table 1. See figure 1.



F/A-18-WRM-00-(28-1)01-CAT1

Figure 1. Strip Dimension

3. PROCEDURE.



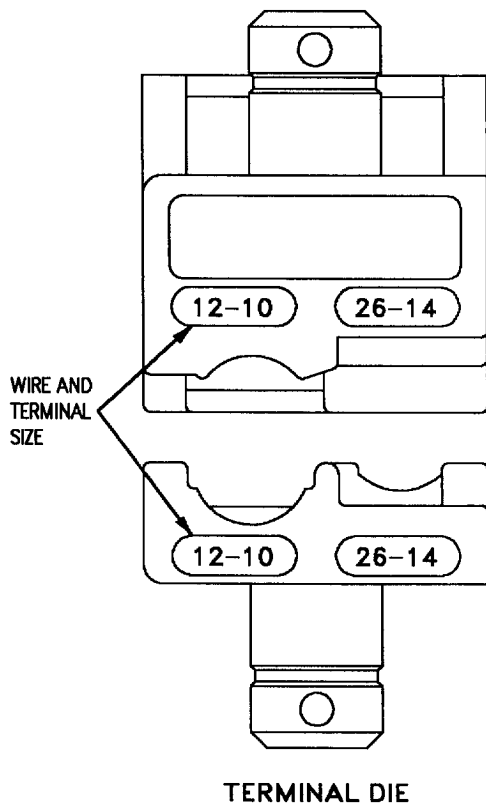
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Using table 1, locate the applicable reference designation (Ref Des) and Pin to identify the terminal, crimp tool, tool box location, die, wire strip length and, if applicable, use on code required to complete the necessary repair.

d. After using table 1 to determine crimp tool and die required, go to paragraph 4 for use of the M22520/5-01 crimp tool or paragraph 9 for use of the H20 crimp tool.

4. CRIMP TOOL M22520/5-01 GENERAL DESCRIPTION.

a. This tool has a self-locking ratchet which prevents the tool from opening until the crimp is completed. This mechanism must never be disassembled since it guarantees correct crimping closure. The crimp tool has removable dies. See figure 2.



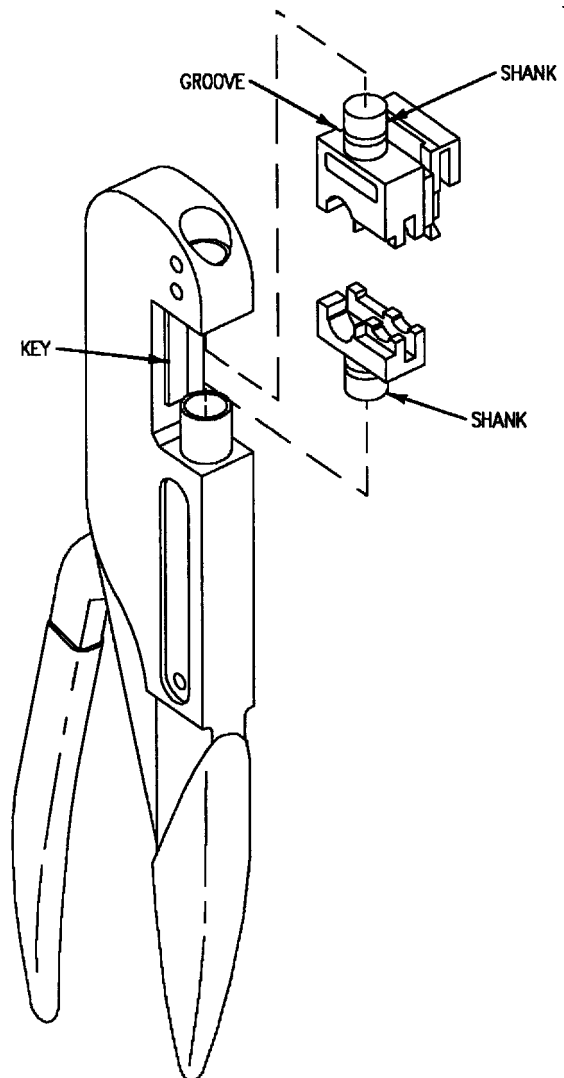
F/A-18-WRM-(26-1)01-CATI

Figure 2. Die Type

5. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

6. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 3.



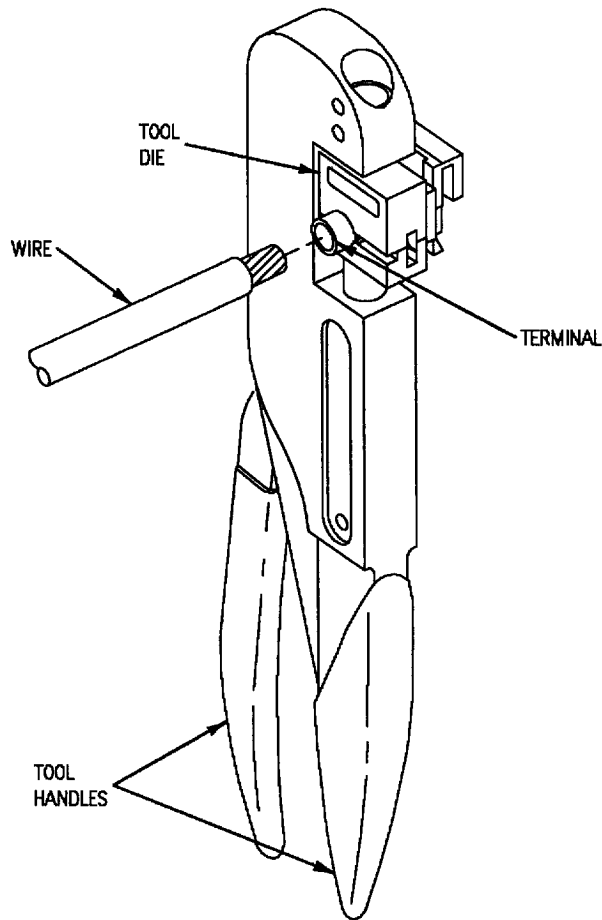
F/A-18-WRM-(27-1)01-CATI

Figure 3. Die Installation

b. Close handle to make sure dies are seated and locked in place.

7. CRIMPING PROCEDURE.

a. Squeeze tool handles slowly until tool die holds terminal firmly in place, but without denting the terminal. See figure 4.



F/A-18-WRM-(113-1)01-SCAN

Figure 4. Crimp Positioning

b. Insert stripped wire into terminal barrel, making sure wire extends 1/32-inch past terminal barrel, until wire butts flush inside end of wire barrel.

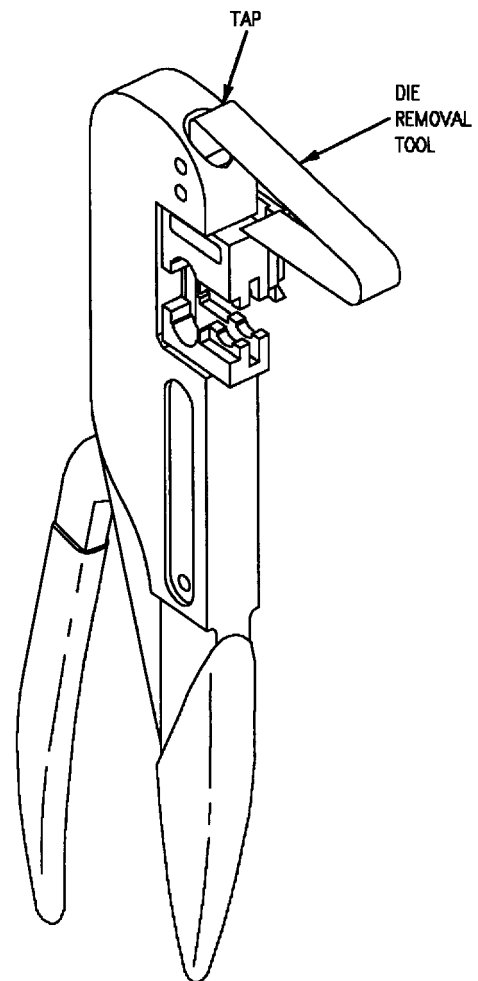
c. Squeeze tool handles until ratchet releases.

d. Open handles and remove terminal and wire assembly. Inspect crimp for cracked terminal barrel, crushed wire insulation, wire not inserted far enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

8. DIE REMOVAL.**NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inch in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 5.

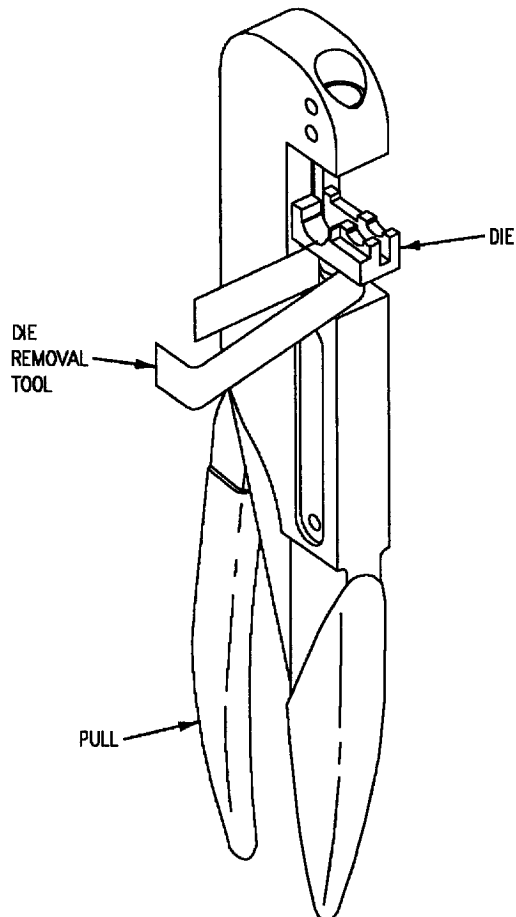


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Figure 5. Upper Die Removal

b. The die releases from the lock spring and ejects 1/16-inch. Remove die by hand.

c. Close crimping tool handle and slide the die removal tool between the die and tool body. See figure 6.



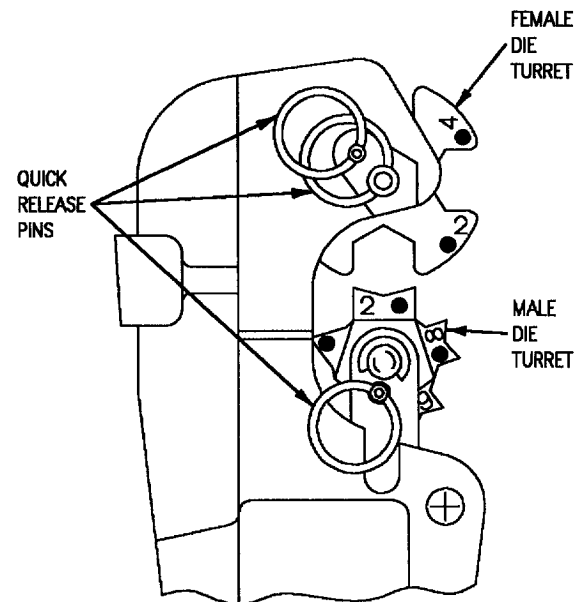
F/A-18-WRM-(30-1)01-CAT1

Figure 6. Lower Die Removal

d. Pull handle open with a snap action. The die releases from the lock spring. Remove die by hand.

9. CRIMP TOOL H20 GENERAL DESCRIPTION.

a. This type of tool installs insulated or non-insulated terminals. By using two interchangeable female die turrets and adjusting the male die turret, the user may crimp terminals on 8 through 2 gage wire. See figure 7.



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Figure 7. Die Turrets

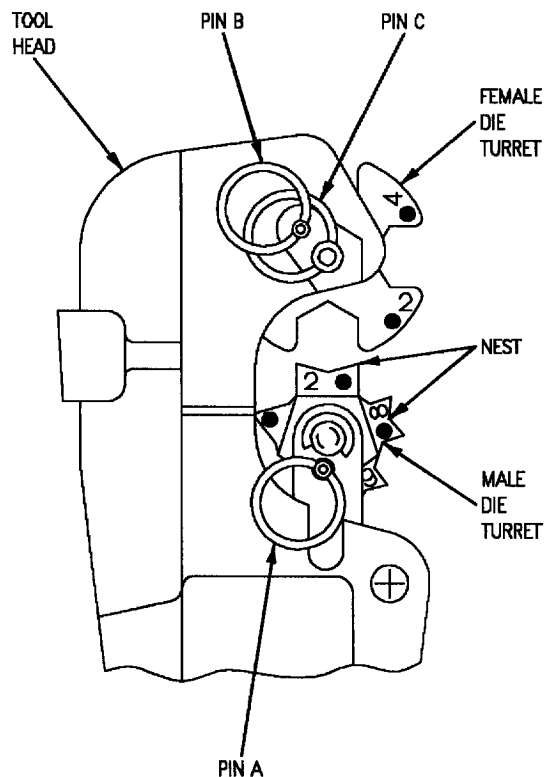
10. CRIMP TOOL H20 ASSEMBLY AND USE.

NOTE

Refer to paragraph 11 for insulated terminals or paragraph 14 for non-insulated terminals.

11. CRIMP TOOL ARRANGEMENT FOR INSULATED TERMINALS.

a. Remove pin A and rotate male die turret until required size nest is in up position. See figure 8.



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b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.



To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

d. Slide female die turret (H20F) into tool head with wire size and color code on same side as the markings on the male die turret.

e. Install pin C to hold female die turret in position.

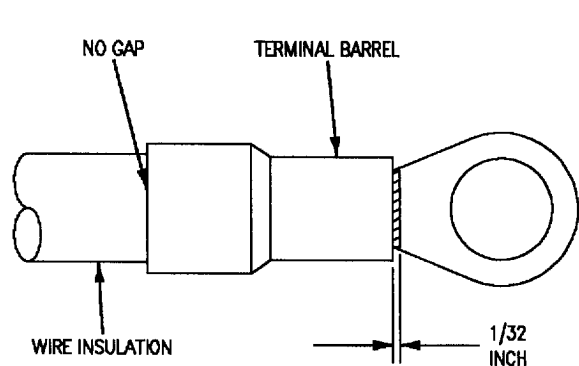
f. Rotate female die turret until wire size and color code match those set in male die turret.

g. Install pin B through ring of pin C to lock the female die turret in position.

Figure 8. Die Turret Adjustment

12. CRIMPING PROCEDURE- INSULATED TERMINALS.

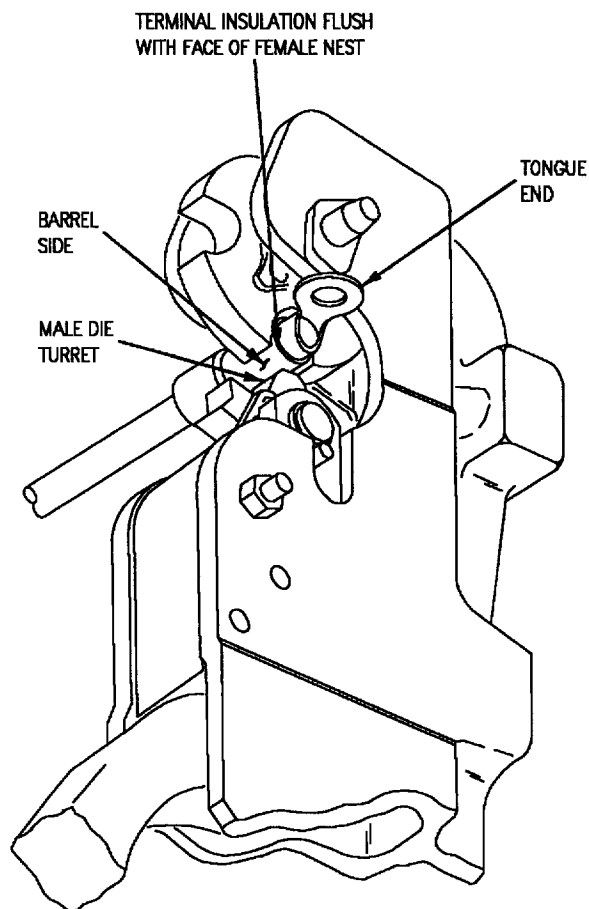
a. Insert stripped wire into terminal until wire insulation butts flush inside terminal barrel. See figure 9.



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Figure 9. Insulated Terminal Wire Installation

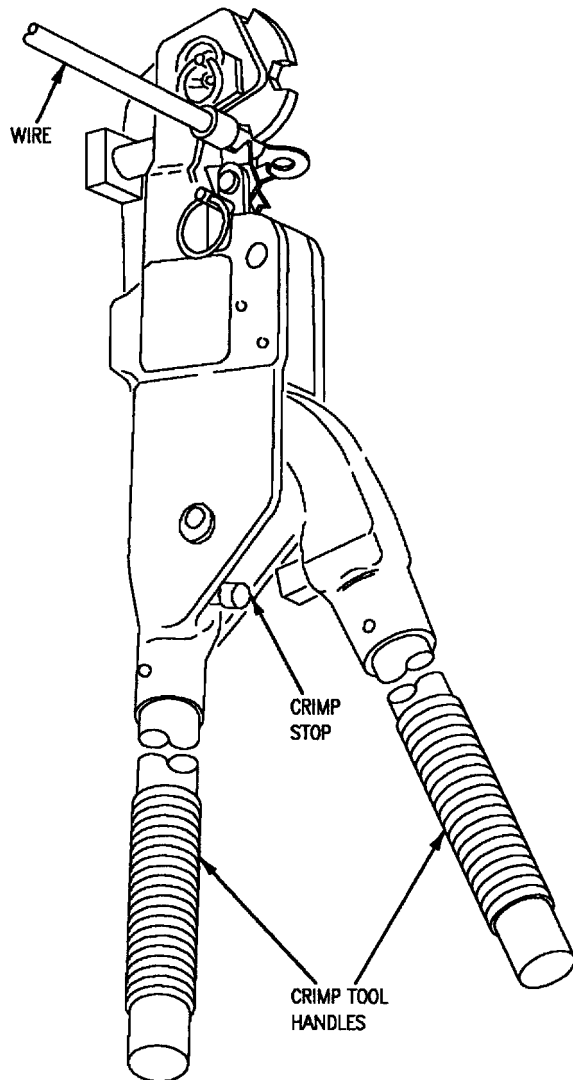
b. Position terminal so that terminal insulation on tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 10.



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Figure 10. Crimp Positioning

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 11.



F/A-18-WRM-(35-1)01-CATI

Figure 11. Crimping Terminal - Insulated

d. Open crimp tool handles and remove terminal and wire assembly. Inspect for correct crimp by examining for cracked terminal barrel, crushed wire insulation, wire not inserted far enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

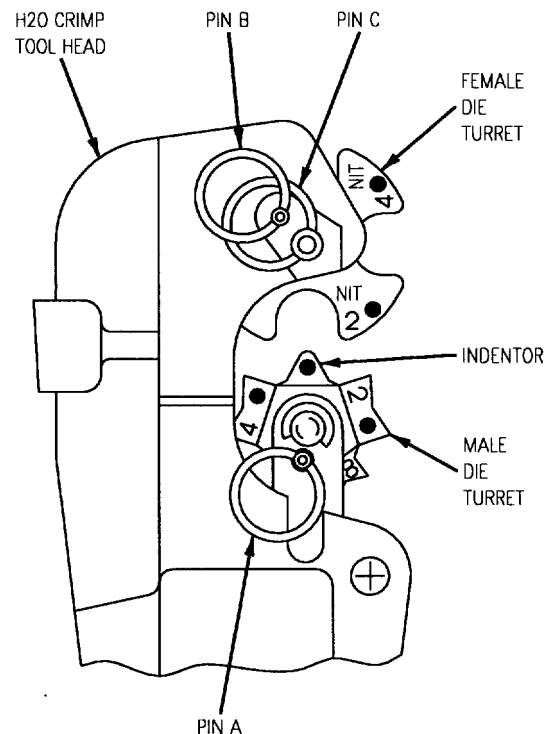
13. DIE TURRET REMOVAL - INSULATED.

a. Remove pins B and C from tool head and remove female die turret. See figure 8.

b. Install pins B and C in tool head.

14. CRIMP TOOL ARRANGEMENT FOR NON-INSULATED TERMINALS.

a. Remove pin A and rotate male die turret until indenter with white spot is in up position. See figure 12.



F/A-18-WRM-(36-1)01-CATI

Figure 12. Indentor Positioning

b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.

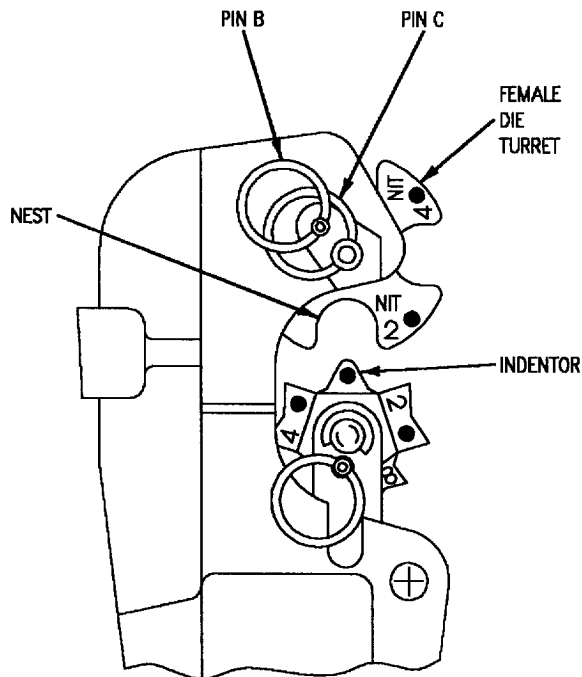


To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

d. Slide female die turret (H20N) into tool head with wire size markings on same side as the markings on the male die turret.

e. Install pin C to hold female die turret in position.

f. Rotate female die turret until required nest size is in line with indenter. See figure 13.



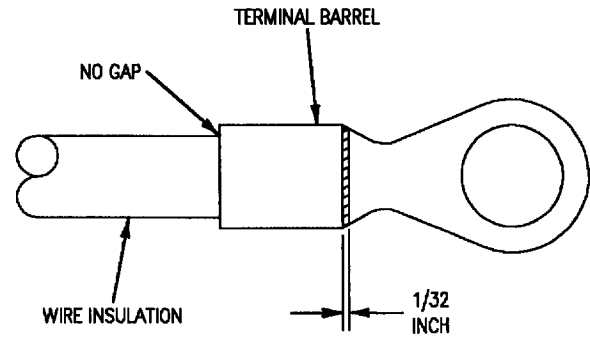
F/A-18-WRM-(36-2)02-CATI

Figure 13. Female Die Adjustment

g. Install pin B through ring of pin C to lock the female die turret in position.

15. CRIMPING PROCEDURE - NON-INSULATED TERMINALS.

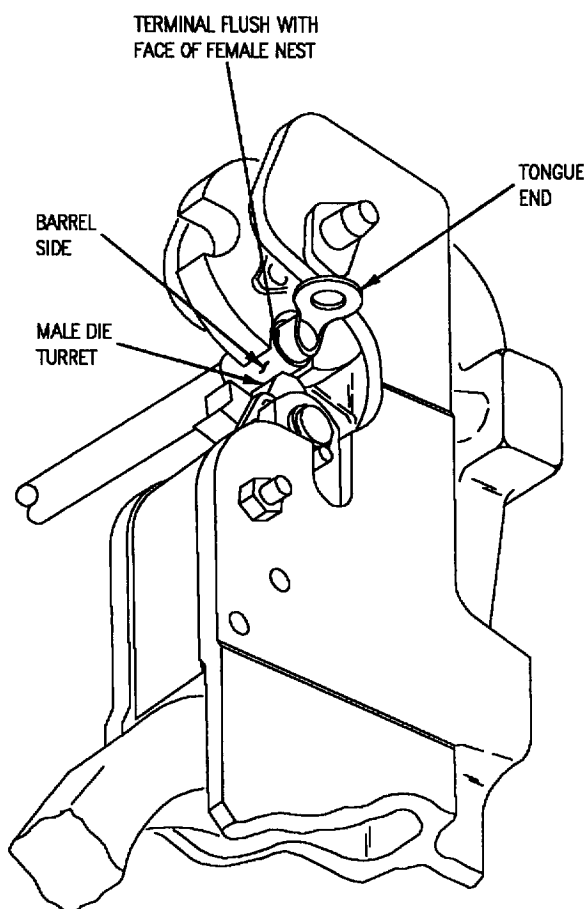
a. Insert stripped wire into terminal until wire insulation butts flush against terminal barrel. See figure 14.



F/A-18-WRM-(38-2)02-CATI

Figure 14. Non-Insulated Terminal Wire Installation

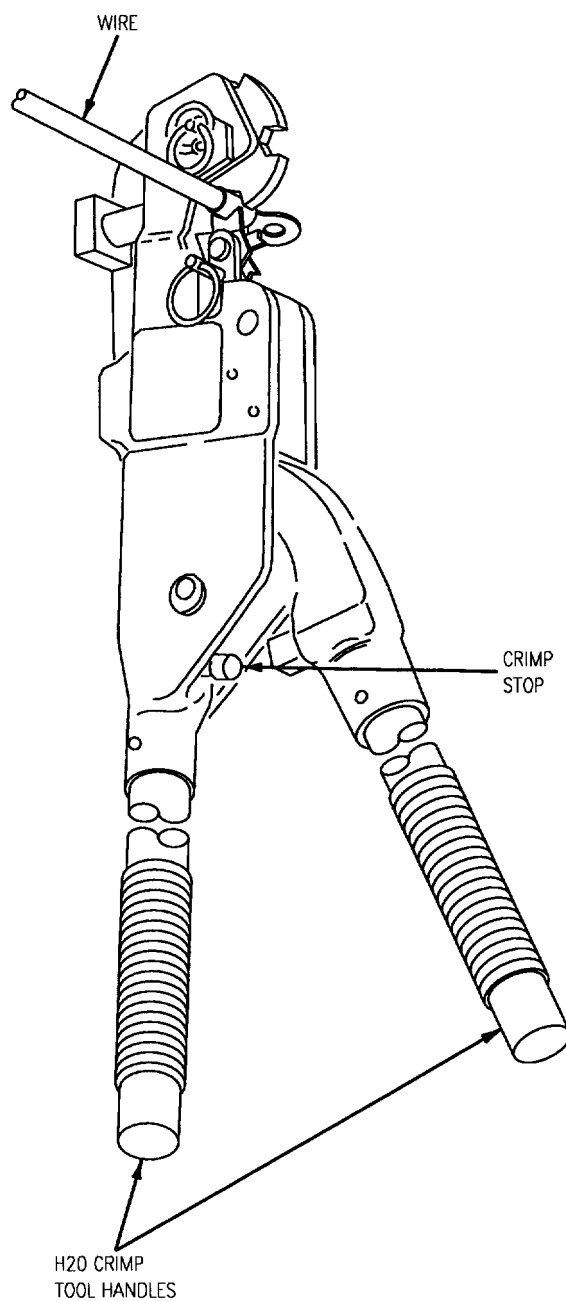
b. Position terminal so that end of terminal barrel at tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 15.



F/A-18-WRM-(39-2)02-CAT1

Figure 15. Non-Insulated Crimp Positioning

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 16.



F/A-18-WRM-(35-2)02-CAT1

Figure 16. Crimping Terminal-Non-Insulated

d. Open crimp tool handles and remove terminal and wire assembly. Inspect crimp for cracked terminal barrel, crushed wire insulation, wire not inserted far enough or inserted too far. If crimp is bad, cut terminal off and begin again.

16. DIE TURRET REMOVAL - INSULATED.

a. Remove pins B and C from tool head and remove female die turret. See figure 13.

b. Install pins B and C in tool head.

Table 1. Ground Terminal Crimping Data

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND1-A001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND1-A001	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-A005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-A006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-A008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-A009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-B002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-C002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-C003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-C004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-C004	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
GND1-C005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND1-C006	2	MS25036-116	H20	H20F (Red)	13/32 Inch	AA
GND1-E002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-E002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND1-E004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND1-E004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-E005	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AC
GND1-E005	1	M7928/1-42	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
GND1-E006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND1-E007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-E008	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-E102	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-F002	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND1-F003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND1-F003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-F004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND1-F005	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND1-H005	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-H006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFS
GND1-J004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-K101	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND1-K102	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFS
GND1-L001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND1-L101	1	MS25036-103	M22520/5-01	MS2252/5-100 Small Cavity	3/16 INCH	AA
GND1-M001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND1-M002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-M003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND1-N001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-P001	1	MS25036-121	H20	H20F (Green)	17/32 Inch	DFJ
GND1-P002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-P002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND1-P003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-S001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND1-S002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-S003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND1-T001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-T002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND1-T003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-U001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-U001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND1-U001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAJ
GND1-U001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND1-U002	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND1-U002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND1-U003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-U003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-U004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-U004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND1-V001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-V001	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND1-V002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10B003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10B003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND10C005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10C006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10C006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND10C006	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND10C007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND10C007	2	M25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAB
GND10C007	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND10E001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10E001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10E005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10E005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10E005	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10E005	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BF
GND10E006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CB
GND10F001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10F004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10F004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10F004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10F005	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10F005	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10F005	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10F007	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10F009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10H003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10H007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H011	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H011	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H011	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10H013	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND10H013	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H014	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H014	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10H014	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10J002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J002	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10J003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J003	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J008	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BO
GND10J009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10J010	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAI
GND10K105	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10K106	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10K107	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10L001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND10L001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10L005	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10L006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10L106	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10L106	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10M001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DCR
GND10M002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10M002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10M004	1	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10M004	2	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10M005	1	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10M005	2	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10N003	1	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10P004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P006	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P006	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P008	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P008	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P009	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P009	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10P011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10P011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10P012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P012	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10P013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CC
GND10P013	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CC
GND10P013	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CC
GND10P013	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CC

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10R001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10R010	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R010	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R010	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R011	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R011	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R012	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10R012	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R012	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND10R015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R015	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R015	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R015	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R016	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10R016	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND10S001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CD
GND10S002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CE
GND10S002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CE
GND10S002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10S002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CF
GND10S003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CF
GND10S004	1	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CB
GND10S005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BN
GND10T001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10T002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10T002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10T003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CE
GND10T003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CE
GND10T003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10T003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CE

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND10T004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CG
GND10T005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CG
GND10T005	2	M7928/1-65	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CB
GND10T007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BN
GND10U001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10U001	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10U002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10U003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AH
GND10U003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND10U003	3	MS25036-112	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AI
GND10U004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10U006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10U007	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V001	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND10V004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11C001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11C001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11C001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11C001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CY
GND11C001	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AG

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND11C002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BR
GND11C003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND11E001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BT
GND11E001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BE
GND11E001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11E001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11E002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11F001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BF
GND11F001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11F001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11H001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11H001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND11H001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11H001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11H002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11H002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND11L001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11N001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND11N001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12A001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND12A003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12A003	3	MS25036-112	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
GND12B001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12B002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12B002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
GND12C001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C001	4	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
GND12C002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AU
GND12C003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C003	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFO
GND12C004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C004	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C005	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFP
GND12C005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFY
GND12C005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C005	3	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AQ

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12C005	4	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BR
GND12C006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BS
GND12C006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C006	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C006	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C007	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C007	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C007	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND12C007	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12C007	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND12C008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND12C008	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND12C008	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND12C008	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND12C009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND12C009	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND12D001	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CH
GND12D001	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND12D001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/15 Inch	CH
GND12D001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CH
GND12D002	1	MS25036-112	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
GND12E001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12E001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12E001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CI CJ BE
GND12E001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12E001	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12E002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F003	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK AJ
GND12F004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F004	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F005	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F005	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F006	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F006	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12F007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND12F007	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F010	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F010	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F010	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F010	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12F010	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12H001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12H003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12H003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DEX
GND12J001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12J001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12J002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12J003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12J004	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12J005	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12K001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12K002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12K003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFW
GND12L002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12L003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12L004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12N001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12N004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12W001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12W001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND12Y002	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND12Y002	1	MS25036-152	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AT
GND12Y002	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND12Y003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND12Y003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND12Y005	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CK
GND12Y005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CK

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND12Y006	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CK
GND2-A005	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BGL
GND2-A005	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-A009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-A010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-A010	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
GND2-A010	3	MS25036-115	H20	H20F (Red)	13/32 Inch	
GND2-A011	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-B001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-B005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND2-B006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-B007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BU
GND2-C002	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BT
GND2-C003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
GND2-C005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
GND2-C005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFU
GND2-C005	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C005	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C006	1	MS25036-157	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND2-C006	2	MS25036-157	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	DFU
GND2-C007	1	M7928/L-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-C008	1	MS25036-117	H20	H20F (Red)	13/32 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-C009	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BBP
GND2-C010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND2-D003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-D003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-D003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-D003	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND2-D005 GND2-D006	1	MS25036-117 MS25036-103	H20 M22520/5-01	H20F (Red) M22520/5-100 Small Cavity	13/32 Inch 3/16 Inch	BDT
GND2-D006	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCT
GND2-D006	2	MS25036-157	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
GND2-D006	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
GND2-D008	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-D008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND2-D008	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BU
GND2-D009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFX
GND2-D009	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFX
GND2-E002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-E003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-E004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-E004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DDF
GND2-E005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-E006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-E007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBN
GND2-E007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBL

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-F007	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AR
GND2-F008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F009	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BE
GND2-F015	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F015	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F016	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F016	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F016	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-F017	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F017	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F018	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F018	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F020	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CL
GND2-F021	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F021	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGE
GND2-F022	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-F022	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-H006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND2-H006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H011	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-H011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-H011	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-H011	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CN
GND2-H011	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGF
GND2-H015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AU
GND2-H015	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AV
GND2-H015	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGF
GND2-J003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
GND2-J006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND2-J009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-J010	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CO
GND2-K002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-K002	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-K003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-K102	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-K102	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BK

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-K102	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BJ
GND2-K102	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGG
GND2-L004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-L004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-L004	3	M7928/L-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-L005	1	MS25036-112	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AA
GND2-L005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-L006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFQ
GND2-L101	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-L101	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGG
GND2-L102	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-L103	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-L103	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CA
GND2-L104	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-L105	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-M001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND2-M001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-M001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND2-M002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BL
GND2-M002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAF
GND2-M003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-M004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-N001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-N001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-N002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-N002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-N003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-N003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-N003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CZ
GND2-N003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CZ
GND2-P001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-P001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P007	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-P009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P009	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P009	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-P010	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-P013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R005	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R005	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R006	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AU
GND2-R008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R008	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R008	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R010	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R010	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-R012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND2-R013	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R014	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R014	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R014	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-R014	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CQ
GND2-S002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND2-S007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-S008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND2-T001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-T003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND2-T003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-T005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND2-U002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CEA
GND2-U002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-U002	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-U002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND2-U004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAP
GND2-U004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND2-U004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND2-U004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-U004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-U006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND2-U008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CEA
GND2-V002	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND2-V003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND2-V003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND2-V003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V003	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND2-V004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND2-V004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND2-V006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-A001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-A002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-A004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-B004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-B005	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-C002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-C004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-C006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BEV
GND3-C006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-C007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-D003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
GND3-D003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BEL
GND3-D003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BEZ
GND3-D003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CA
GND3-D003	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGJ
GND3-E001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-E002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-E101	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F003	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND3-F005	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
GND3-F005	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F010	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-F010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-F011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-F012	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-F012	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F012	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-F013	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-H003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-H007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-H007	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-H008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-H008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-H008	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-H016	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-H016	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-J001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-J004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-J004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-K001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-K101	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AX
GND3-K103	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND3-K104	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-K105	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFS
GND3-L001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-L001	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND3-L001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BF
GND3-L103	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-L103	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AY
GND3-L103	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-L103	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DDG
GND3-L104	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND3-M001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-N003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND3-P003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-P004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P006	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P006	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-P008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-R002	1	MS250.36-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND3-R007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND3-R008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND3-S001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-T001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-T002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-T002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND3-T003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-U001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-U001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-U001	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAP
GND3-U008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND3-U008	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-U008	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-V001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-V001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND3-V001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-V001	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-V002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND3-V002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND3-V002	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-A001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-B001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-B002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND4-B003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-C001	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND4-D001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
GND4-D001	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
GND4-D004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-D006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-D007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F006	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F008	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F011	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F011	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-F012	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H006	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H011	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H018	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-H018	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J006	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND4-J006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J007	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J007	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J009	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J013	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J016	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J016	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J017	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J017	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-J017	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFV
GND4-K101	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-K102	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-K103	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-K104	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND4-L004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND4-L004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-L004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND4-L004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L004	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND4-L101	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND4-L102	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L102	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L103	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L103	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L104	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L104	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L104	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L104	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L105	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-L106	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND4-N001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-P001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CR
GND4-R001	1	MS25036-121	H20	H20F (Green)	1/2 Inch	
GND4-R002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND4-R003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND4-R004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND4-U001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-U002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-V001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND4-V001	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	DAW
GND4-V001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND4-V001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND4-V002	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	3/16 Inch	
GND4-V003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND4-V004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND4-V004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-B001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-E001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-F002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-J001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND5-L102	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-P001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND5-R001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND6-K001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND6-K002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND6-K004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BE
GND6-L001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND6-L003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-A001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND7-C001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DBB
GND7-C001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C001	3	MS250:36-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND7-C001	4	MS250:36-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AU
GND7-C002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND7-C003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AQ
GND7-C003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BW
GND7-C003	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFW
GND7-C003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DA
GND7-C003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DB
GND7-C003	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BB
GND7-C004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BC
GND7-C004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND7-C004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND7-C004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND7-C004	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND7-C005	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C005	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C006	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C006	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C006	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-C007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-C007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND7-C008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND7-C008	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND7-E001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E001	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND7-E002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-E002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-E002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBU
GND7-F001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AHI
GND7-F001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F001	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND7-F002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND7-F003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
GND7-F003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND7-F004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFJ
GND7-F004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-F004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-H001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAJ
GND7-H001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-H003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-H003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-J001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-J004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND7-J005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-J005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-J005	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-L001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CT
GND7-N001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N001	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND7-N002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N002	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND7-N002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND8-H001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND8-H002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H008	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H010	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H011	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-H012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-J001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-J002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-J003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-J004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-J005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND8-K001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-A004	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-A004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-A005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-A008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-A008	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND9-A009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-A009	3	M7928/1-58	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
GND9-B001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B002	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B003	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-B004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B004	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-B006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-C006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-C007	1	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
GND9-C007	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-C007	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-C007	4	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
GND9-C008	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-C008	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND9-C009	2	MS25036-157	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	BCT
GND9-C011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BEV
GND9-C011	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND9-C011	3	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-C011	4	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-C012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-C013	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGK
GND9-C014	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND9-C014	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND9-C014	2	MS25037-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAB
GND9-D003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-D003	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND9-D003	2	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AK
GND9-D003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-D003	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-D009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-D011	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND9-D011	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGL
GND9-D011	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
GND9-D013	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-D013	2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCT
GND9-D013	3	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
GND9-D013	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
GND9-D016	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-D016	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND9-E002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DDF
GND9-E007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E007	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-E008	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-E011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E011	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-E012	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBN
GND9-E013	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F014	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBC
GND9-F014	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F015	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F015	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F015	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBC
GND9-F017	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F018	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F018	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F018	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBC
GND9-F019	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F020	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F020	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F021	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CBC
GND9-F022	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F022	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F022	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-F022	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BE BF AE CBM
GND9-F029	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F030	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F030	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F033	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F033	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F034	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F034	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F036	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F036	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F036	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F037	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F038	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F038	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F041	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F042	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-F042	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H005	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-H009	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-H009	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H009	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-H009	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-H011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-H011	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-H012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-H012	1	M7928/ 1 - 15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-H012	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-J005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J007	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J015	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J015	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J015	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J015	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J017	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-J017	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-J017	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-J019	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BO
GND9-J019	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BO
GND9-J019	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGN

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-J028	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-K001	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-K001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CO
GND9-K002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-K101	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K101	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K101	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K102	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K103	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K104	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K104	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K106	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-K106	2	M79928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CU
GND9-K106	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CA
GND9-K106	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFS
GND9-L004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BE
GND9-L004	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CA
GND9-L004	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-L010	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-L010	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-L011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-L011	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFQ

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-L013	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DFQ
GND9-L101	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L101	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L102	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L103	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-L104	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-M001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAT
GND9-M001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAO
GND9-M001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAF
GND9-M002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAF
GND9-M002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAF
GND9-M003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAT
GND9-M003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
GND9-M003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAF
GND9-M003	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BL
GND9-M005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M005	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
GND9-M006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGM
GND9-M006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-M007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-M007	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-M008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BL
GND9-M009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M010	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-M011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAI
GND9-M011	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAI
GND9-N001	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AH
GND9-N002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-N002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-N002	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-N003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-N003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-N004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-N004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CZ
GND9-N004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CZ
GND9-N004	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CZ
GND9-N006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CW
GND9-P001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P002	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-P004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-P009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-P012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P013	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P013	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P013	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P014	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P015	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P016	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-P017	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-P017	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R005	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R008	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CAN
GND9-R009	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R009	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R009	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-R012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-R015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BZ
GND9-S001	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S001	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S002	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S003	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S004	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
GND9-S006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S007	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CX
GND9-S008	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-S009	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-S010	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T001	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T003	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T004	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T005	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T005	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T006	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T006	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T007	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T008	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-T009	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CX
GND9-T010	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T011	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-T013	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-U001	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-U001	1	MS25036-112	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
GND9-U001	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U001	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
GND9-U002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U003	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U004	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U004	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW
GND9-U004	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAP
GND9-U004	4	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAJ
GND9-U005	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U006	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U006	2	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
GND9-U006	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAJ
GND9-U007	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-U010	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-U012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DAW DAP
GND9-U012	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U013	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-U015	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V001	1	MS25036-108	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-V001	2	MS25036-108	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-V001	4	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V001	4	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V002	1	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V002	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V002	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V003	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V003	2	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V003	3	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V003	3	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V004	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V007	1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
GND9-V008	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V009	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V012	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI AH
GND9-V012	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V013	1	MS25036-108	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-V015	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
GND9-V015	2	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
GND9-Y002	1	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
USE ON CODE(S)						
AA	F/A-18B.					
AB	F/A-18A 161353 THRU 161987.					
AC	161925 AND UP.					
AD	161353 THRU 161924.					
AE	F/A-18A.					
AG	F/A-18A 161520 THRU 161987, F/A-18B 161354 THRU 161947.					
AH	161353 THRU 161987.					
AI	162394 AND UP.					
AJ	161360 AND UP.					
AK	161353 THRU 161359.					
AL	161702 AND UP.					
AM	161353 THRU 161528.					
AN	F/A-18A 161353 THRU 161761, F/A-18B 161354 THRU 161746, 162402 AND UP.					
AO	F/A-18A 161925 AND UP, F/A-18B 161924 THRU 161947.					
AP	F/A-18A 161520 THRU 161528, 162394 AND UP, F/A-18B 162402 AND UP.					
AQ	161702 THRU 161987.					
AR	161353 THRU 161528, F/A-18A 162394 AND UP.					
AT	161702 THRU 162444					

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
AU		161924 AND UP.				
AV		161353 THRU 161761.				
AX		F/A-18B 161354 THRU 161947.				
AY		F/A-18A 161353 THRU 161528.				
AZ		F/A-18A, F/A-18B 161354 THRU 161947.				
BA		F/A-18B 162402 AND UP.				
BB		161353 THRU 161519, 162394 AND UP.				
BC		161520 THRU 161987.				
BD		161360 THRU 161987.				
BE		F/A-18B 161704 AND UP.				
BF		F/A-18A 161702 AND UP.				
BJ		F/A-18B 161360 AND UP.				
BK		F/A-18B 161354 THRU 161357.				
BL		161353 THRU 161519.				
BM		161520 AND UP.				
BN		162415 AND UP.				
BO		161520 THRU 162414.				
BR		161353 THRU 163118.				
BS		F/A-18A 163119 AND UP, F/A-18B 163123 AND UP.				
BT		161353 THRU 162909.				
BU		163092 AND UP.				
BV		F/A-18B 161924.				
BW		163119 AND UP.				

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
BX		F/A-18B 161354 THRU 161360.				
BZ		F/A-18A, F/A-18B 161354 THRU 161947, 612836 AND UP.				
CA		F/A-18B 163104 AND UP.				
CB		161353 THRU 161528.				
CC		162445 AND UP.				
CD		161353 THRU 161521.				
CE		161353 THRU 161719.				
CF		F/A-18A 161353 THRU 161718, F/A-18B 161354 THRU 161746.				
CG		161353 THRU 161727.				
CH		161353 THRU 161359.				
CI		F/A-18B 161354 THRU 161746.				
CJ		F/A-18A, F/A-18B 161924 AND UP.				
CK		161730 THRU 161924.				
CL		F/A-18A 161520 THRU 161761.				
CM		F/A-18A 161925 AND UP.				
CN		161360 AND UP.				
CO		F/A-18A 163092 AND UP.				
CP		F/A-18A, F/A-18B 161704 THRU 161947.				
CQ		F/A-18A 161353 THRU 161521, F/A-18B.				
CR		F/A-18A 161353 THRU 163144, F/A-18B.				
CS		162394 THRU 163118.				
CT		161728 AND UP.				

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
CU		F/A-18B 161354 THRU 162885.				
CV		F/A-18A 161353 THRU 161519.				
CW		162394 THRU 162417.				
CX		161353 THRU 162414.				
CY		F/A-18A 161353 THRU 161519, 162394 AND UP.				
CZ		F/A-18A 161520 AND UP; F/A-18B 161704 THRU 161947, 162836 AND UP.				
DA		161353 THRU 161947 F/A-18A 161948 THRU 163118				
DB		F/A-18B 162402 THRU 163115; 163119 AND UP.				
AHI		161353 THRU 161359 AFTER F18 AFC 8.				
BBP		161353 THRU 161987 BEFORE F18 AFC 86.				
BCS		161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 49.				
BCT		161353 THRU 161528 BEFORE F18 AFC 49.				
BEL		F/A-18A 161353 THRU 161987 BEFORE F18 AFC 48.				
BEV		161353 THRU 161987 BEFORE F18 AFC 48.				
BEZ		F/A-18B 161354 THRU 161947 BEFORE F18 AFC 48.				
BGL		162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 48.				
CAB		F/A-18A 161353 THRU 161519, F/A-18B 161354 THRU 161360 AFTER F18 AFC 27.				
CAF		161353 THRU 161519 BEFORE F18 AFC 27.				
CAO		F/A-18A 161353 THRU 161519 BEFORE F18 AFC 27.				
CAT		F/A-18B 161354 THRU 161360 BEFORE F18 AFC 27.				
CBC		F/A-18A 161520 AND UP; ALSO F/A-18A 161353 THRU 161519 AFTER F18 AFC 27.				
CBL		F/A-18B 161924 AND UP; ALSO F/A-18B 161354 THRU 161746 AFTER F18 AFC 39.				

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
CBM	F/A-18A 161520 AND UP; ALSO F/A-18A 161353 THRU 161519 AFTER F18 AFC 39.					
CBN	F/A-18B 161704 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 39.					
CBU	161360 AND UP; ALSO 161353 THRU 161359 AFTER F18 AFC 8.					
CDH	F/A-18A 161702 AND UP, F/A-18B 161704 AND UP; ALSO 161353 THRU 161360 AFTER F18 AFC 49.					
CEA	161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 57.					
CAI	161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.					
CAL	161353 THRU 161761 AFTER F18 AFC 53.					
CAN	161924 AND UP; ALSO 161353 THRU 161761 AFTER F18 AFC 53.					
DAJ	161353 THRU 161987 AFTER F18 AFC 74.					
DAP	161353 THRU 161987 BEFORE F18 AFC 74.					
DAW	162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 74.					
DBB	161353 THRU 161528 AFTER F18 AFC 49.					
DCF	BEFORE F18 AFC 81.					
DCS	AFTER F18 AFC 81.					
DDF	F/A-18B 161354 THRU 161360 AFTER F18 AFC 54.					
DDG	F/A-18A 161353 THRU 161528 AFTER F18 AFC 54.					
DEX	162826 AND UP AFTER F18 AFC 114					
DFJ	162394 AND UP; ALSO 161353 THRU 161987 BEFORE F18 AFC 74.					
DFO	F/A-18B 162402 AND UP; ALSO 161353 THRU 161761 BEFORE F18 AFC 74.					
DFP	161924 THRU 161947, F/A-18A 161948 AND UP; ALSO 161353 THRU 161761 AFTER F18 AFC 74.					
DGJ	163092 AND UP; ALSO 161353 THRU 161987 BEFORE F18 AFC 48.					

Table 1. Ground Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
DGM		161520 AND UP; ALSO F/A-18A 161353 THRU 161519 BEFORE F18 AFC 27.				
DFS		F/A-18B 161704 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 54.				
DFQ		F/A-18A 161702 AND UP; ALSO F/A-18A 161353 THRU 161528 AFTER F18 AFC 54.				
DFU		161353 THRU 161528, 162394 AND UP; ALSO 161702 THRU 161987 AFTER F18 AFC 48.				
DFV		161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 54.				
DFW		161353 THRU 161528 AFTER F18 AFC 54.				
DFX		163119 AND UP; ALSO 161353 THRU 163118 AFTER F18 AFC 90.				
DFY		F/A-18A 161520 THRU 161528, 162394 AND UP; F/A-18B 162402 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 54.				
DGE		F/A-18A 161925 AND UP; ALSO F/A-18A 161353 THRU 161519 AFTER F18 AFC 39.				
DGF		161924 AND UP; ALSO 161353 THRU 161761 AFTER F18 AFC 52.				
DGG		F/A-18B 161932 AND UP; ALSO F/A-18B 161354 THRU 161924 AFTER F18 AFC 52.				
DGK		161360 AND UP; ALSO 161353 THRU 161359 AFTER F18 AFC 53.				
DGL		161360 THRU 161987 BEFORE F18 AFC 48.				
PGN		162415 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.				

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****INSTALLATION OF MISCELLANEOUS TERMINALS, RING TONGUE CRIMPED BARREL**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Record of Applicable Technical Directives

Type/Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 19	-	Addition of a Second Shoot Light Power Supply Connector (WUC 44314)	1 Oct 93	-
F/A-18 AFC 39	-	No. 1 Fuel Tank Interconnect Valve, Replacement of; and Fuel Sequencing, Modification of	1 Oct 93	-
F/A-18 AFC 48	-	Alternating Current Bus Isolation (ECP MDA-F/A-18-00121)	1 Oct 93	-
F/A-18 AFC 49	-	Addition of Lead Acid Battery (ECP MDA-F/A-00074)	1 Sep 86	-
F/A-18 AFC 52	-	Cockpit Avionics Cooling Fan Thermal Protector, Modification of	1 Oct 93	-
F/A-18 AFC 90	-	GFE Battery Relay Control Unit, Incorporation of	1 Oct 93	-
F/A-18 AFC 93	-	Right Hand Primary A.C. Power Wires, Relocation of	1 Oct 93	-

1. INTRODUCTION

2. This work package contains the information and procedures required for the installation of ring tongue crimped barrel terminals.

Materials Required

Specification
or Part Number

See Table 1

Nomenclature

Terminal Crimping
Data

Support Equipment Required

Part Number or
Type Designation

Nomenclature

DMC498-1001

Repair Set-Wire and
Connector

3. PROCEDURE.

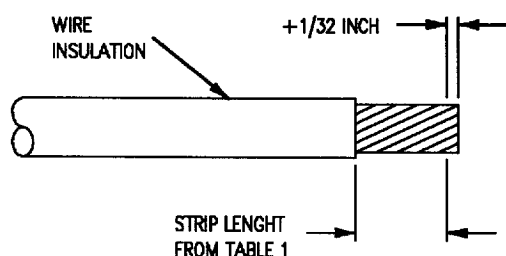


To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Using table 1, locate the applicable reference designation (Ref Des) and Pin to identify the terminal, crimp tool, die, wire strip length and, if applicable, use on code required to complete the necessary repair.

b. Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070 then refer to Wire Type List (WP004 00) for correct wire type and strippers.

c. Strip wire to dimension specified in table 1. See figure 1.



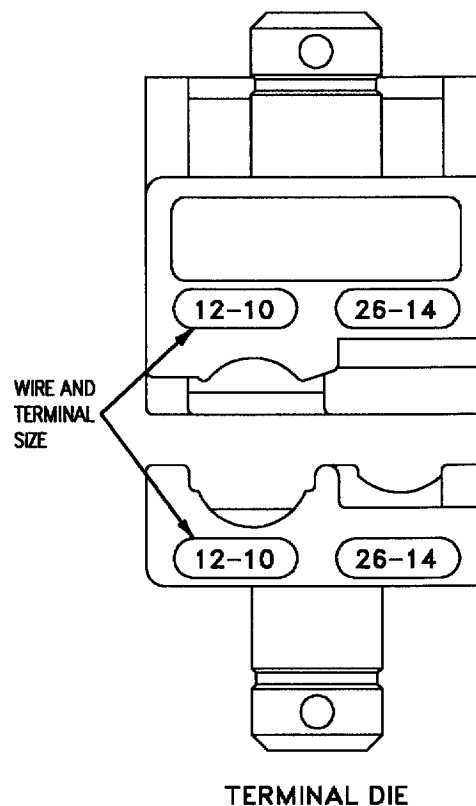
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Figure 1. Strip Dimension

d. After using table 1 to determine crimp tool and die required, go to paragraph 4 for use of the M22520/5-01 crimp tool or paragraph 9 for use of the H20 crimp tool.

4. CRIMP TOOL M22520/5-01 GENERAL DESCRIPTION.

a. This tool has a self-locking ratchet which prevents the tool from opening until the crimp is completed. This mechanism must never be disassembled since it guarantees correct crimping closure. The crimp tool has removable dies. See figure 2.



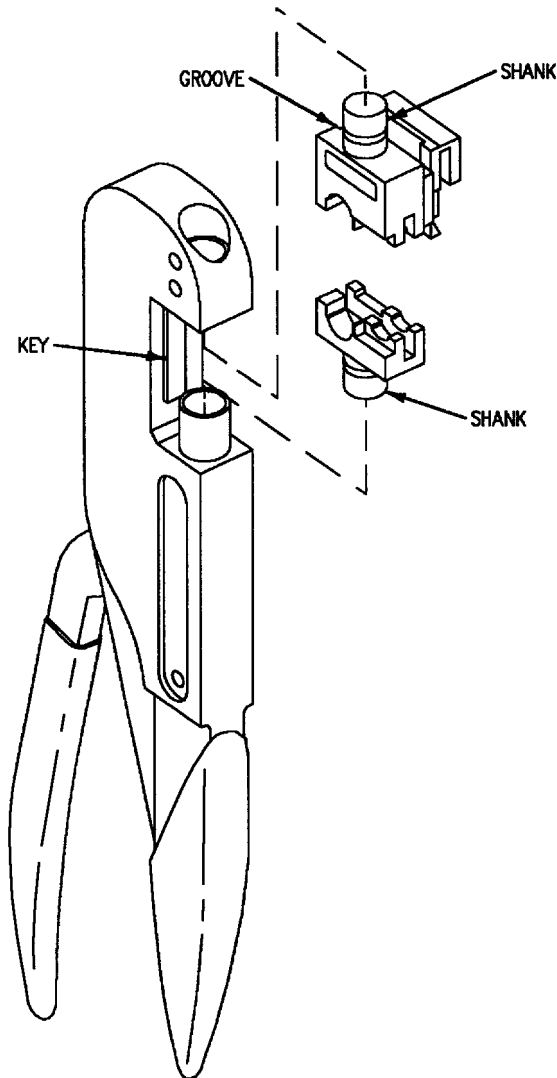
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Figure 2. Die Type

5. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

6. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 3.



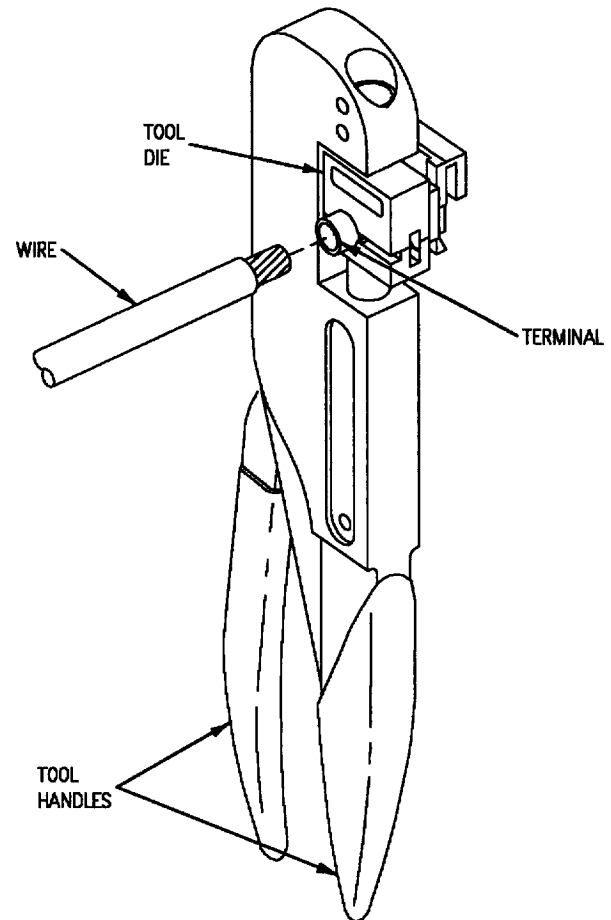
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Figure 3. Die Installation

b. Close handle to make sure dies are seated and locked in place.

7. CRIMPING PROCEDURE.

a. Squeeze tool handles slowly until tool die holds terminal firmly in place, but without denting the terminal. See figure 4.



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Figure 4. Crimping Positioning

b. Insert stripped wire into terminal barrel, making sure wire extends 1/32-inch past terminal barrel, until wire butts flush inside end of wire barrel.

c. Squeeze tool handles until ratchet releases.

d. Open handles and remove terminal and wire assembly. Inspect crimp for cracked terminal barrel, crushed wire insulation, wire not inserted far

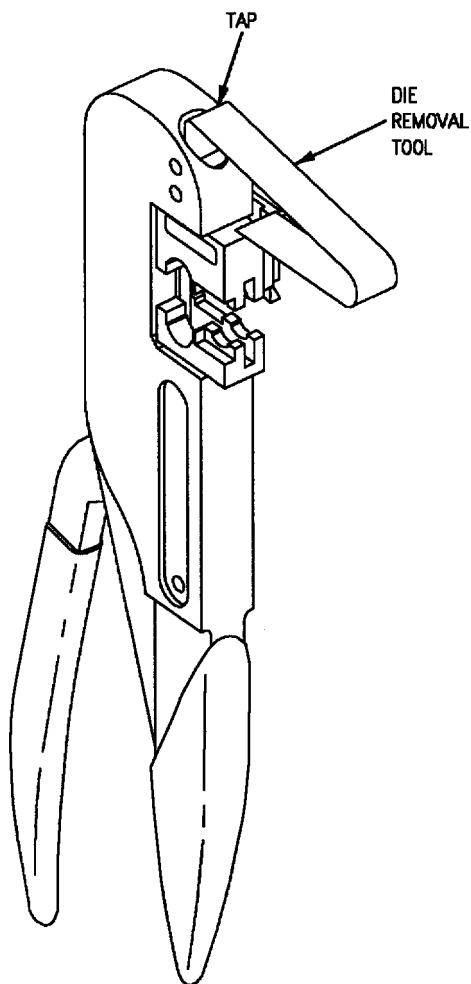
enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

8. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inch in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 5.

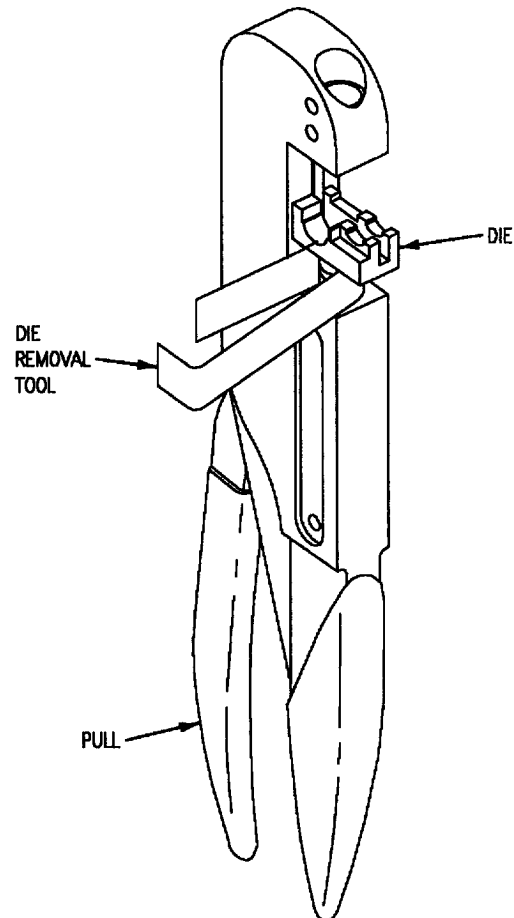


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Figure 5. Upper Die Removal

b. The die releases from the lock spring and ejects 1/16-inch. Remove die by hand.

c. Close crimping tool handle and slide the die removal tool between the die and tool body. See figure 6.



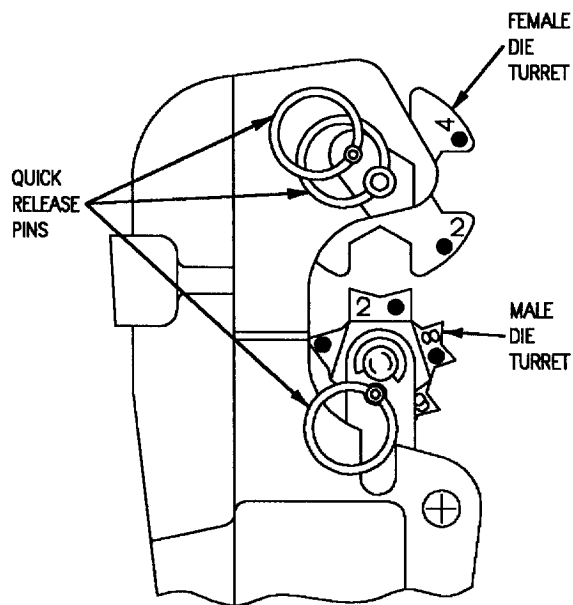
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Figure 6. Lower Die Removal

d. Pull handle open with a snap action. The die releases from the lock spring. Remove die by hand.

9. CRIMP TOOL H20 GENERAL DESCRIPTION.

a. This type of tool installs insulated or non-insulated terminals. By using two interchangeable female die turrets and adjusting the male die turret, the user may crimp terminals on 8 through 2 gage wire. See figure 7.



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Figure 7. Die Turrets

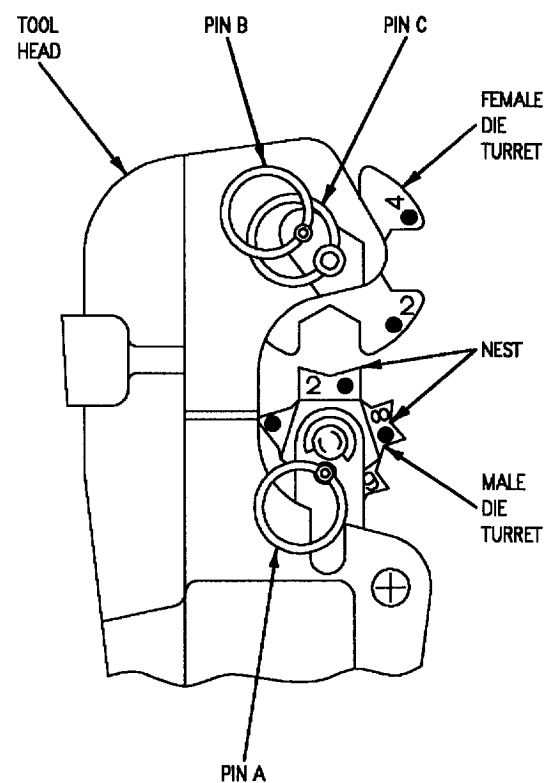
10. CRIMP TOOL H20 ASSEMBLY AND USE.

NOTE

Refer to paragraph 11 for insulated terminals or paragraph 14 for non-insulated terminals.

11. CRIMP TOOL ARRANGEMENT FOR INSULATED TERMINALS.

a. Remove pin A and rotate male die turret until required size nest is in up position. See figure 8.



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Figure 8. Die Turret Adjustment

b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.

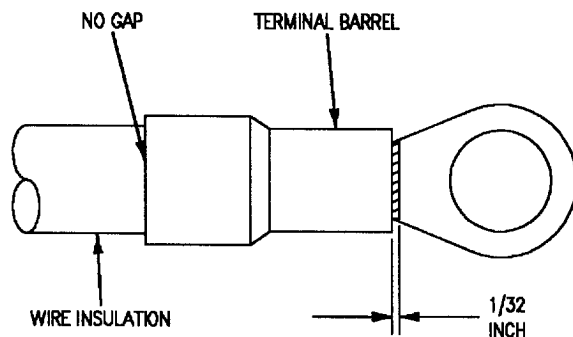
CAUTION

To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

- d. Slide female die turret (H20F) into tool head with wire size and color code on same side as the markings on the male die turret.
- e. Install pin C to hold female die turret in position.
- f. Rotate female die turret until wire size and color code match those set in male die turret.
- g. Install pin B through ring of pin C to lock the female die turret in position.

12. CRIMPING PROCEDURE - INSULATED TERMINALS.

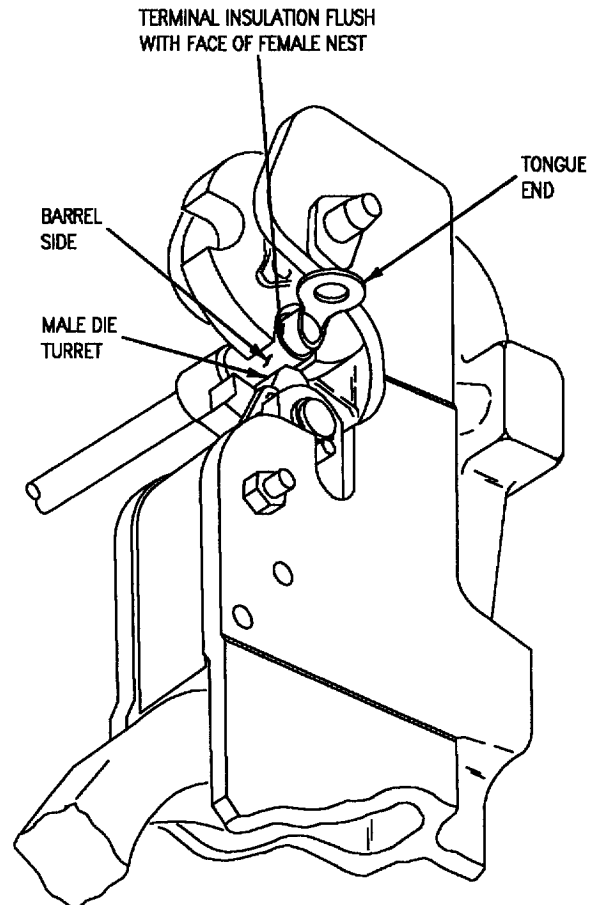
- a. Insert stripped wire into terminal until wire insulation butts flush inside terminal barrel. See figure 9.



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Figure 9. Insulated Terminal Wire Installation

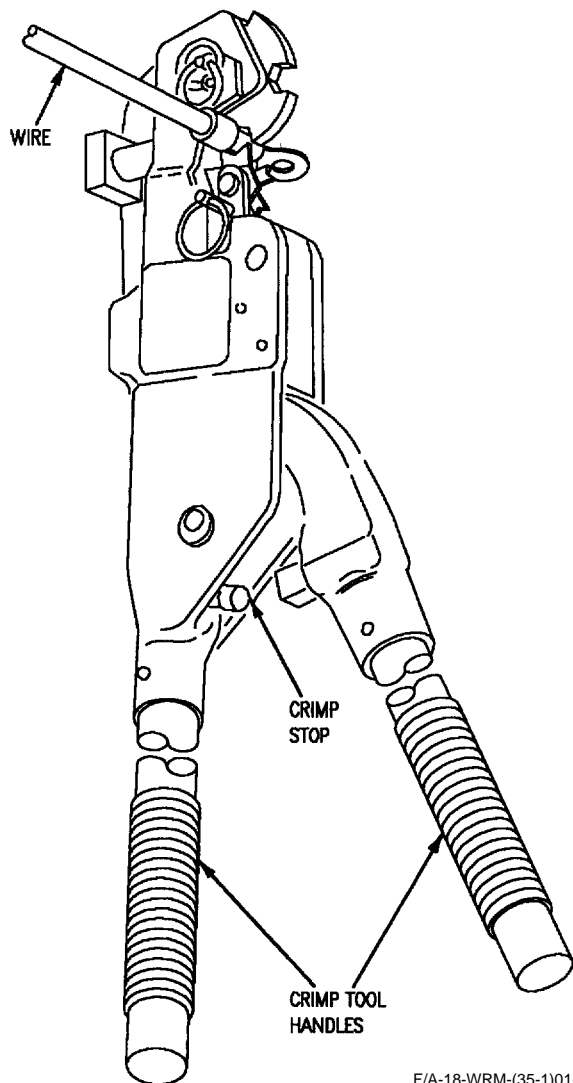
- b. Position terminal so that terminal insulation on tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 10.



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Figure 10. Crimp Positioning

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 11.



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Figure 11. Crimp Terminal - Insulated

d. Open crimp tool handles and remove terminal and wire assembly. Inspect crimp for cracked terminal barrel, crushed wire insulation, wire not inserted far enough or inserted too far. If crimp is bad, cut the terminal off and begin again.

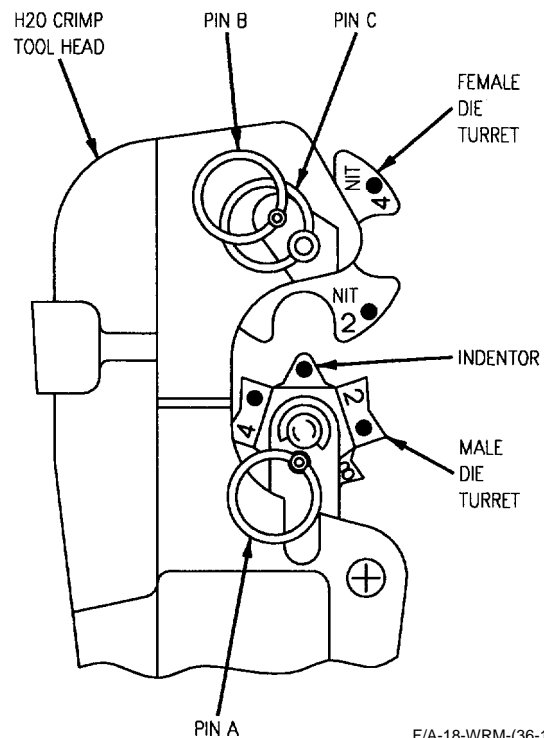
13. DIE TURRET REMOVAL - INSULATED.

a. Remove pins B and C from tool head and remove female die turret. See figure 8.

b. Install pins B and C in tool head.

14. CRIMP TOOL ARRANGEMENT FOR NON-INSULATED TERMINALS.

a. Remove pin A and rotate male die turret until indenter with white spot is in up position. See figure 12.



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Figure 12. Indentor Positioning

b. Install pin A to lock male die turret in position.

c. Remove pins B and C from tool head.

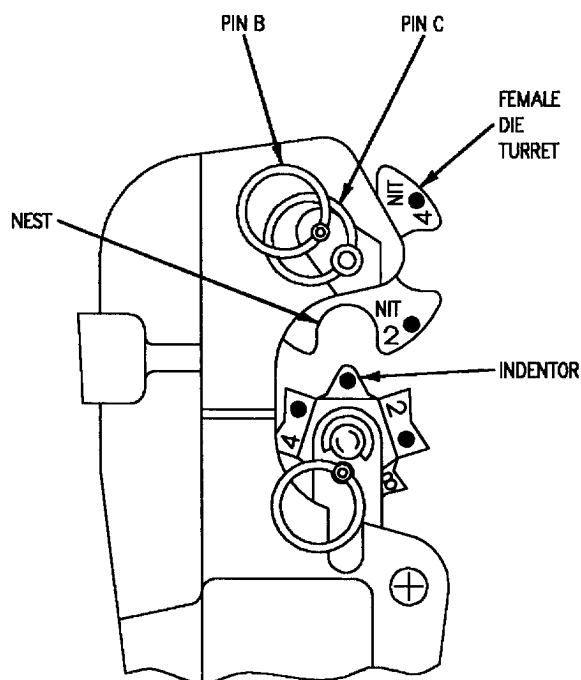


To ease installation of female die turret and prevent damage to the male die turret, make sure crimp tool handle is in the full open position.

d. Slide female die turret (H20N) into tool head with wire size markings on same side as the markings on the male die turret.

e. Install pin C to hold female die turret in position.

f. Rotate female die turret until required nest size is in line with indenter. See figure 13.



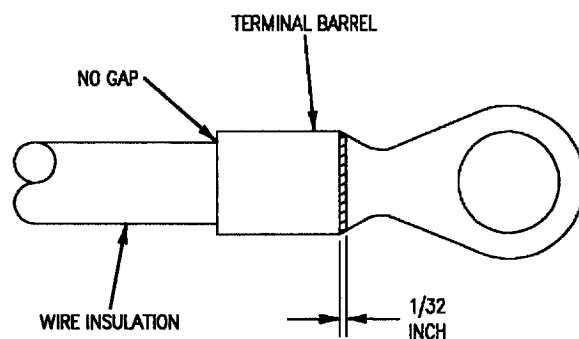
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Figure 13. Female Die Adjustment

g. Install pin B through ring of pin C to lock the female die turret in position.

15. CRIMPING PROCEDURE - NON-INSULATED TERMINALS.

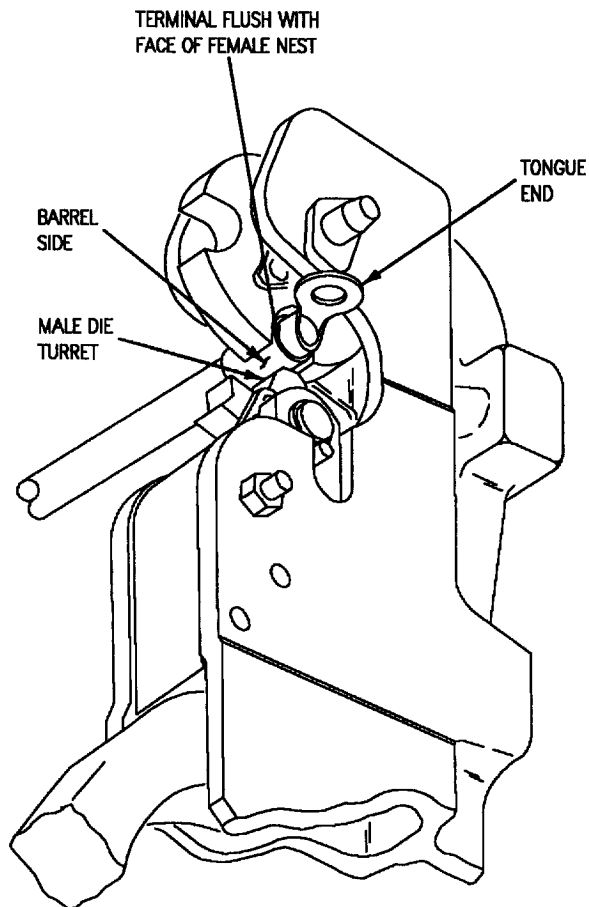
a. Insert stripped wire into terminal until wire insulation butts flush against terminal barrel. See figure 14.



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Figure 14. Non-Insulated Terminal Wire Installation

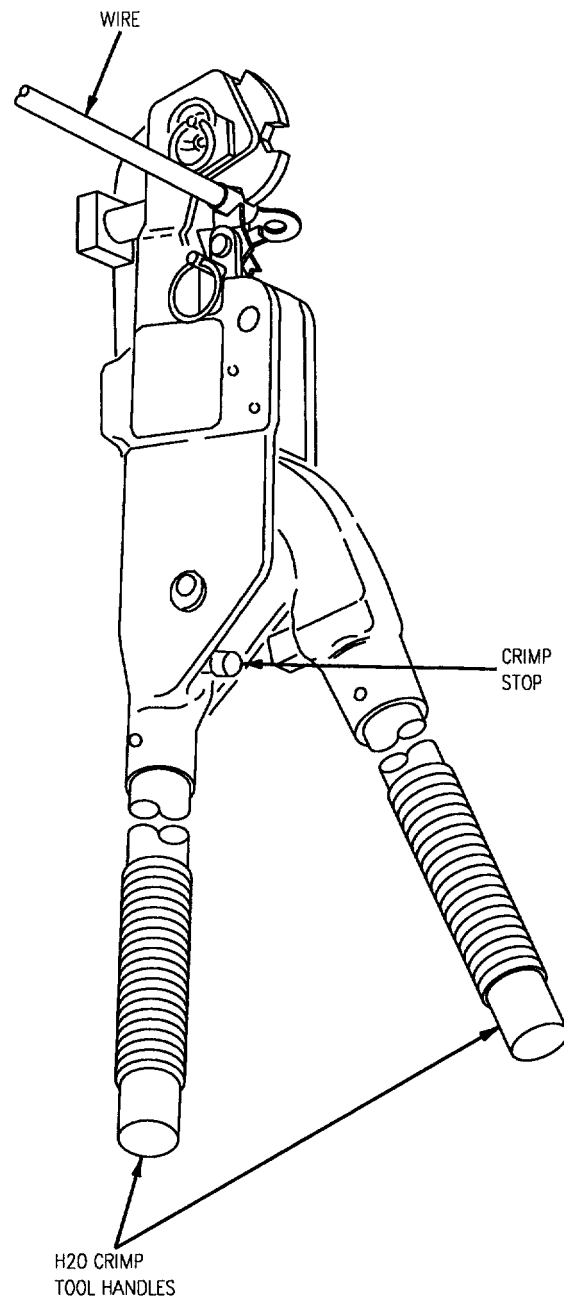
b. Position terminal so that end of terminal barrel at tongue end is flush with face of female nest and barrel side of terminal faces the male die turret. See figure 15.



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Figure 15. Non-Insulated Crimp Positioning

c. Squeeze crimp tool handles until handle meets crimp stop. See figure 16.



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Figure 16. Crimping Terminal Non-Insulated

d. Open crimp tool handles and remove terminal and wire assembly. Inspect crimp for cracked terminal barrel, crushed wire insulation, wire not inserted far enough or inserted too far. If crimp is bad, cut terminal off and begin again.

16. **DIE TURRET REMOVAL - NON-INSULATED.**

a. Remove pins B and C from tool head and remove female die turret. See figure 13.

b. Install pins B and C in tool head.

Table 1. Miscellaneous Terminal Crimping Data

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1A-A135	NEG	MS25036-116	H20	H20F (Red)	13/32 Inch	BCS
1A-A135	POS	MS25036-120	H20	H20F (Green)	17/32 Inch	
1A-C023	NEG	MS25036-117	H20	H20F (Red)	13/32 Inch	
1A-C023	POS	MS25036-118	H20	H20F (Red)	13/32 Inch	
1A-C023	POS	MS25036-122	H20	H20F (Green)	17/32 Inch	
1A-D024	NEG	MS25036-117	H20	H20F (Red)	13/32 Inch	
1A-D024	POS	MS25036-114	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1A-D024	POS	MS25036-122	H20	H20F (Green)	17/32 Inch	AL
1A-D024	POS	MS25036-118	H20	H20F (Red)	13/32 Inch	
1A-P001	G	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-P001	T1	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-P001	T2	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-P001	T3	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-R002	G	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-R002	T1	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-R002	T2	MS25036-121	H20	H20F (Green)	17/32 Inch	
1A-R002	T3	MS25036-121	H20	H20F (Green)	17/32 Inch	
1CBA073	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBA073	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBA074	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBA074	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC025	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AL
1CBC025	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC027	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC027	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC028	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC028	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC029	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC029	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC038	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC038	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC039	Line	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1CBC039	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
1CBC039	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC048	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC073	Line	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
1CBC073	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
1CBC075	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC075	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	BCT
1CBC075	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
1CBC085	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC086	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC087	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC088	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBC088	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBC136	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
1CBC136	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
1CBC139	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CC
1CBC139	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
1CBC147	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
1CBD030	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBD030	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD031	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
1CBD031	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD032	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
1CBD032	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1CBD037	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCQ
1CBD037	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD045	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBD045	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD074	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD074	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1CBD074	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD132	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD132	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD133	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD133	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD134	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1CBD134	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
1CRD124	A1	MS25036-115	H20	H20F (Red)	13/32 Inch	
1J-C021	A	MS25036-118	H20	H20F (Red)	13/32 Inch	
1J-C021	B	MS25036-118	H20	H20F (Red)	13/32 Inch	
1J-C021	C	MS25036-118	H20	H20F (Red)	13/32 Inch	
1J-C021	E	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1J-C021	F	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1J-C021	N	MS25036-118	H20	H20F (Red)	13/32 Inch	
1K-A130	G	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-A130	A1	322047	H20	H20F (Green)	17/32 Inch	
1K-A130	A2	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AL
1K-A130	X1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-A130	X2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
1K-C007	A1	MS25036-120	H20	H20F (Red)	13/32 Inch	
1K-C007	A1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
1K-C007	A2	MS25036-116	H20	H20F (Red)	13/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1K-C007	A3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C007	B1	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-C007	B1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C007	B2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C007	B3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C007	C1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C007	C1	MS25036-120	H20	H20F (Red)	13/32 Inch	
1K-C007	C2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C007	C3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	A1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	A1	M7928/1-25	M22520/5-01	M22520/5-100 Small Cavity	13/32 Inch	
1K-C022	A2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	A3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	B1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	B1	M7928/1-25	M22520/5-01	M22520/5-100 Small Cavity	13/32 Inch	
1K-C022	B2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	B3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	C1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	C1	M7928/1-25	M22520/5-01	M22520/5-100 Small Cavity	13/32 Inch	
1K-C022	C2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C022	C3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C042	A1	C77U	M22520/5-01	M22520/5-100 Large Cavity	15/32 Inch	
1K-C042	A1	54575-1	H20	H20F (Red)	13/32 Inch	
1K-C042	A2	54575-1	H20	H20F (Red)	13/32 Inch	
1K-C042	A3	54575-1	H20	H20F (Red)	13/32 Inch	
1K-C042	X1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C042	X2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C042	GND	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C094	A1	C77U	M22520/5-01	M22520/5-100 Large Cavity	15/32 Inch	
1K-C094	A2	C77U	M22520/5-01	M22520/5-100 Large Cavity	15/32 Inch	
1K-C094	A3	C77U	M22520/5-01	M22520/5-100 Large Cavity	15/32 Inch	
1K-C094	X1	MS25036-107	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C094	X2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1K-C094	GND	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
1K-C097	A1	54575-1	H20	H20F (Red)	13/32 Inch	BGL AI BGL AI BGL AI
1K-C097	A2	54575-1	H20	H20F (Red)	13/32 Inch	
1K-C097	A3	54575-1	H20	H20F (Red)	13/32 Inch	
1K-C097	X1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C097	X2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-C097	GND	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL AI BGL AI BGL AI
1K-C145	A1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C145	A2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C145	B1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C145	B2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-C145	C1	MS25036-116	H20	H20F (Red)	13/32 Inch	AL DGO
1K-C145	C2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D008	A1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-D008	A1	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	A2	MS25036-116	H20	H20F (Red)	13/32 Inch	AL DGO
1K-D008	A2	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	A3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D008	B1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-D008	B1	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	B2	MS25036-116	H20	H20F (Red)	13/32 Inch	AL DGO
1K-D008	B2	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	B3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D008	C1	M7928/1-16	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1K-D008	C1	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	C2	MS25036-116	H20	H20F (Red)	13/32 Inch	AL DGO
1K-D008	C2	MS25036-120	H20	H20F (Green)	17/32 Inch	
1K-D008	C3	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D146	A1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D146	A2	MS25036-116	H20	H20F (Red)	13/32 Inch	BGL BGL BGL BGL BGL BGL
1K-D146	B1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D146	B2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D146	C1	MS25036-116	H20	H20F (Red)	13/32 Inch	
1K-D146	C2	MS25036-116	H20	H20F (Red)	13/32 Inch	
1S-G160	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGP
1S-G160	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGP
1S-G160	4	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGP

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1S-G160	5	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGP
1S-G160	6	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGP
1S-H141	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGQ
1S-H141	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	CC
1S-H141	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DGR
1S-H141	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BA
1S-H141	4	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-H141	5	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-H141	7	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-H141	8	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-H141	10	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-H141	11	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BGL
1S-J017	2	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
1S-J017	3	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
1S-J018	2	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
1S-J018	3	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
1T-D046	G	M7928/1-40	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1T-D046	HV	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1T-D046	LV	M7928/1-40	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
1X-C009	A1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C009	A2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C009	B1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C009	B2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C009	C1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C009	C2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-C107	A1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1X-C107	A2	MS25036-115	H20	H20F (Red)	13/32 Inch	
1X-D010	A1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
1X-D010	A2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-D010	B1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-D010	B2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-D010	C1	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-D010	C2	MS25036-115	H20	H20F (Red)	13/32 Inch	BEV
1X-D026	A1	MS25189-102	H20	H20N (Red)	13/32 Inch	
1X-D026	A2	MS25189-102	H20	H20N (Red)	13/32 Inch	
1X-D108	A1	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCT
1X-D108	A1	MS25036-115	H20	H20F (Red)	13/32 Inch	
1X-D108	A2	MS25036-112	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
1X-E123	A1	MS25189-102	H20	H20N (Red)	13/32 Inch	
1X-E123	A2	MS25189-102	H20	H20N (Red)	13/32 Inch	
10CBC016	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
10CBD001	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
10CBD001	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
12CBD002	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
12CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
12CBD002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBD028	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
12CBD028	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
12CBD070	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AH
12CBD070	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBD071	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBH003	Line	M7928/1-23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBH003	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBH003	Load	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBJ001	Line	M7928/1-23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBJ001	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
12CBJ001	Load	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
13CBC001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
13CBC001	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
15CBC001	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
17CBC002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
17CBC002	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
17CBC003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
17CBC003	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
17CBC004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
17CBC004	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
17CBC021	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AJ
17CBD001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
17CBD001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
17CBD005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
17CBD005	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
17CBD006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
17CBD006	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
17CBD007	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AD
17CBD007	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
18CBH001	Line	M7928/1-23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
18CBH001	Load	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
19CBJ001	Line	M7928/1-23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
19CBJ001	Load	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2CBC001	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
2CBC007	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
2CBC007	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCT
2CRN006	NEG	MS25036-154	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-G002	1	M7928/1-22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-G002	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-G002	3	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-P023	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-P023	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
2S-P023	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20CBC001	Line	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCS
20CBC001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20CBC001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20CBC002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20CBC002	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L004	G	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L004	A1	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L004	A2	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L004	A3	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AA
20K-L004	X1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L004	X2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L005	G	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L005	A1	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L005	A2	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L005	A3	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L005	X1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
20K-L005	X2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
20K-L015	G	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L015	A1	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L015	A2	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L015	A3	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
20K-L015	X1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20K-L015	X2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20S-C010	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20S-C010	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20S-C010	3	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20S-C010	4	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
20S-C010	5	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
20S-C010	6	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC035	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC040	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBC040	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC062	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBC062	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC062	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BG
22CBC063	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AA
22CBC063	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC063	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	BG
22CBC064	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AA
22CBC064	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
22CBC064	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	BG
22CBC074	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBC074	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC077	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC078	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC079	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC080	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC081	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC082	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBC106	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AI
22CBC106	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD020	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD034	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD036	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
22CBD036	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
22CBD036	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
22CBD037	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD037	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD052	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD052	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
22CBD053	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD053	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD054	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD054	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
22CBD057	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
22CBD059	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD060	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD061	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22CBD070	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD070	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22CBD071	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD071	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22CBD094	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22CBD104	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
22CBD104	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	BU
22CBD173	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22K-D055	A1	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	A2	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	B1	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	B2	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	C1	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	C2	M7928/1-58	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	
22K-D055	X1	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22K-D055	X2	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-A091	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-A091	3	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A091	5	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A091	6	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
22S-A105	1	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A105	2	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A105	3	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A105	4	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-A105	5	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-J058	1	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	DHA
22S-J058	2	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-J058	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-J058	4	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-J058	5	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-J058	5	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	DHA
22S-J058	6	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AC
22S-J058	6	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AD
22S-J095	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BI
22S-J095	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-L115	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-L115	1	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
22S-L115	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
22S-L115	2	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	CFF
22S-L115	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHB
22S-L115	4	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	DHB
22S-L115	5	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHC
22S-L115	5	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32	CFC
22S-L115	6	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	DHC

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
22S-L115	6	M7928/1-3	M22520/5-01	M22520/5-100 Small Cavity	5/32	CFC
22S-P032	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
22S-P032	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
23CBD001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
23CBD001	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
24CBC018	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
24CBC018	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
24CBD001	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
25CBC001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
25CBC003	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
25CBC003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
25CBC003	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BJ
28CBC001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BK
28CBC003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28CBC005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28CBD002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28CBD004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28CBD007	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
28CBD007	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
28E-A013	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
28E-A021	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28E-B014	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28E-B022	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28E-E019	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
28E-E019	PWR	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AI
28S-J008	1	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28S-J008	2	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28S-J008	3	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28S-J008	4	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
28S-J008	5	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBC012	Line	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBC012	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBC021	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBC021	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBC025	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBC025	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBC038	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBC039	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBC039	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBC040	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBC040	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBD029	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
3CBD029	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBD041	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBD042	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBD043	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
3CBD052	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBD052	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
3CBD062	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AHI
3CBD076	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
3CBD077	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
3CBD077	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
33CBD001	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
33CBD003	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
33CBD003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
33CBD004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
33CBD004	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
33CBD005	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
33CBD005	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
33CBD010	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
34CBD001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
34CBD001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
34CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
34CBD002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
34CBD002	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCU
34S-H007	1	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
34S-H007	2	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
34S-H007	3	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
34S-H007	4	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
34S-H007	5	M7928/1-2	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
4CBC002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BM
4CBD001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
4CBD001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4CBD100	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4P-T109A	EMI	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4P-T109B	EMI	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4P-T109C	EMI	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	3	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	4	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	5	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
4S-H026	6	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-E028	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
5A-E028	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
5A-E028	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
5A-F028	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
5A-F028	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
5A-F028	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
5A-F029	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHD
5A-F029	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHD
5A-F029	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHD
5A-U037	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U037	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U037	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U038	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
5A-U038	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U038	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U039	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U039	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-U039	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V041	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V041	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V041	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V042	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V042	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V042	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V043	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V043	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-V043	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	1	NW21	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	2	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	2	NW22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	3	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5A-Y062	3	NW23	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC001	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC001	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBC002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
5CBC003	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CH
5CBC003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBC016	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC023	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC023	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBC050	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC050	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBC054	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC054	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBC101	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC115	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC148	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC153	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC157	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
5CBC157	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBC162	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AU
5CBD044	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
5CBD063	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBD064	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5CBD065	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
5CBD066	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5S-H005	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5S-H005	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5S-H005	4	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
5S-H005	5	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AM
5S-H005	7	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AM
5S-H005	8	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AM
5S-H005	9	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AM
5S-H005	10	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AM
5S-H005	11	MS25036-145	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AM
5T-B012	G	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5T-B012	HV	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
5T-B012	LV	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC003	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC004	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC005	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC005	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC006	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC020	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC020	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC021	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC021	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC022	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC022	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC023	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
60CBC023	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
60CBC025	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
61CBC091	Line	MS25036-156	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AE
61CBC091	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
61CBC092	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBC092	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBC144	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBC145	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBC154	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
61CBC242	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBC242	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBC243	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBC243	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD004	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCU
61CBD004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD006	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD067	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD067	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD068	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD068	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD069	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
61CBD069	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD070	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD070	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD071	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD071	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD072	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD072	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD073	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD073	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD074	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD074	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
61CBD075	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD076	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD076	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD077	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD077	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD078	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD078	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD079	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD079	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD080	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD080	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD081	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
61CBD081	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
61CBD082	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AM
61CBD082	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD083	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD083	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
61CBD084	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCU
61CBD084	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD087	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD088	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD089	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD090	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD090	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD130	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD131	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD134	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD135	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
61CBD135	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD136	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AH
61CBD136	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD146	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
61CBD146	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD149	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
61CBD149	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
61CBD149	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD156	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
61CBD157	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD158	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD159	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
61CBD221	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
61CBD221	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AB
61CBD221	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AF
61S-H177	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
61S-H177	2	M7928/1-22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
61S-H177	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
61S-H177	3	M7928/1-22	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
62CBC001	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
62CBC002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
62CBC003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
62CBC004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AL
62CBC004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
62CBC005	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AL
64CBC011	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
64CBC012	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
64CBC013	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
64CBC016	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CE
64CBC016	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
65CBD024	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
65CBD024	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
65CBD024	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
65CBD025	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
65CBD025	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
65S-H027	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
65S-H027	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
66CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
66CBD002	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
67CBD003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
68CBC006	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
68CBC006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
68CBC007	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
68CBC008	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
68CBC009	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
68CBC009	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
68CBD005	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
69CBD004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AK
69CBD004	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
7CBC002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
7CBC002	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
7CBC005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
7CBC012	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7CBC029	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7CBC035	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
7CBC035	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
7DSM007	HV	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
7DSM007	GND	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7DSN008	HV	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7DSN008	GND	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7E-A014	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7E-A014	PWR	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7E-B016	PWR	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7E-B016	PWR	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7E-U018	PWR	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7E-V020	PWR	M7928/1-15	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7FLS044	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7FLS044	Load	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7FLS046	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7FLS046	Load	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7FLT045	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7FLT045	Load	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7FLT047	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7FLT047	Load	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7S-H028	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7S-H028	3	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7T-T039	G	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7T-T039	HV	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
7T-T039	LV	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
7T-T039	GND	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AK
70CBD006	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
70CBD006	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AA
71CBD002	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
71CBD003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
72CBD007	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
74CBC003	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
74CBC004	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
74CBC005	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
74CBC006	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
74CBC006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
76CBC027	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
76CBC027	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
76CBC027	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
76CBD014	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
76CBD014	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
76CBD015	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
76CBD015	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	DHE
76CBD025	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
76CBD025	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
76CBD030	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
76CBD030	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AE
77CBC006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
78CBC004	Line	MS25036-156	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AE
78CBC004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
78CBC009	Line	MS25036-156	M22520/5-01	M22520/5-100 Small Cavity	9/32 Inch	AE

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
78CBC009	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AJ
79CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
79CBD002	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
79CBD003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
79CBD004	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
79CBD005	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
79CBD005	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
79CBD036	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
79CBD037	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
79CBD038	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
79CBD039	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AL
8CBC105	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AA
8CBC105	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8CBC106	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8CBC107	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8CBC108	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8CBD003	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
8CBD003	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8CBD004	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
8CBD005	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
8CBD005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8CBD046	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BCQ
8CBD047	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8CBD048	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
8CBD048	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8CBD079	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
8DSH029	GND	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSH029	GND	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AE
8DSH029	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSH030	GND	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSH030	PWR	M7928/1-40	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSH062	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSH063	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ017	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ019	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ025	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ028	GND	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ028	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ053	GND	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ053	PWR	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ054	PWR	M7928/1-40	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ055	PWR	M7928/1-40	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ066	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ092	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8DSJ150	GND	MS25036-103	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BAM
8DSK114	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSK115	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSK132	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
8DSK133	PWR	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSK134	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSK155	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL117	PWR	M7928/1-11	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL131	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL135	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL136	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL156	GND	M7928/1-14	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8DSL156	PWR	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8FLJ070	GND	MS25036-150	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8FLL124	GND	MS25036-150	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H015	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H018	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H026	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H027	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H059	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H060	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H061	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H064	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H068	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H071	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-H154	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-J016	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-J022	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
8J-J023	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8J-J024	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-J065	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-K119	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-K151	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-K160	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-K163	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-L152	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8J-L153	PWR	MS25036-148	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	1	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	2	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	4	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	5	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AA
8S-J011	6	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	7	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	8	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	11	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
8S-J011	12	MS25036-102	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
80CBC004	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AG
80CBC005	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
80CBC006	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
80CBC010	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
80CBC011	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
80CBC012	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
				M22520/5-100 Small Cavity		

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
80CBD007	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
80CBD008	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
80CBD009	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
82CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
82CBD002	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
82CBD003	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
82CBD003	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
82CBD004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
82CBD004	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
82CBD005	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	3/16 Inch	
82CBD005	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
83CBC006	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
83CBC007	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
83CBC008	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
83CBD009	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
83CBD010	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	
83CBD011	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	5/32 Inch	AK
84CBC081	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
84CBC081	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC082	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC083	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	CG
84CBC083	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC084	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
84CBC084	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
84CBC087	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BCS
84CBC087	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC089	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
84CBC089	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC090	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
84CBC090	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBC101	Load	M7928/1-4	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BBP
84CBD030	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	AJ
84CBD030	Load	MS25036-146	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BL
84CBD080	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	
84CBD080	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	BL
84CBD098	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BL
84CBD098	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBD099	Load	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBH008	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBH008	Load	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBH009	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBH009	Load	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch	BL
84CBJ010	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBJ010	Load	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBJ011	Line	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84CBJ011	Load	M7928/1-41	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84S-J022	1	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	
84S-J022	2	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code	
84S-J022	4	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch	AN DHF BCR	
84S-J022	5	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
84S-J022	7	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
84S-J022	8	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
84S-J022	10	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
84S-J022	11	M7928/1-13	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
85CBC004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch		
85CBC004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
9CBD002	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch		
9CBD002	Line	MS25036-153	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
9CBD002	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
9CBD004	Line	MS25036-156	M22520/5-01	M22520/5-100 Large Cavity	9/32 Inch		
9CBD004	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
9CBD006	Load	MS25036-149	M22520/5-01	M22520/5-100 Small Cavity	3/16 Inch		
USE ON CODE(S)							
AA	F/A-18B.						
AB	161353 THRU 161359, F/A-18B 163104 AND UP.						
AC	161925 AND UP.						
AD	161353 THRU 161924.						
AE	F/A-18A.						
AF	F/A-18A 161361 AND UP, F/A-18B 161360 THRU 162885.						
AG	F/A-18B 161704 AND UP.						
AH	161353 THRU 161987.						
AI	162394 AND UP.						

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
AJ	161360 AND UP.					
AK	161353 THRU 161359.					
AL	161702 AND UP.					
AM	161353 THRU 161528.					
AN	F/A-18A 161702 AND UP					
AU	161924 AND UP.					
BA	F/A-18B 162402 AND UP.					
BG	F/A-18A, F/A-18B 161354 THRU 161714.					
BH	F/A-18B 161932 AND UP.					
BI	F/A-18B 161354 THRU 161924.					
BJ	F/A-18B 161360 AND UP.					
BK	F/A-18B 161354 THRU 161357.					
BL	161353 THRU 161519.					
BM	161520 AND UP.					
BU	163092 AND UP.					
CC	F/A-18A 162394 AND UP.					
CE	161520 THRU 161761.					
CF	F/A-18B 161719 AND UP.					
CG	161360 THRU 161987.					
CH	F/A-18A 161353, F/A-18B 161354 THRU 161357.					
AHI	161353 THRU 161359 BEFORE F18 AFC 8.					
BAM	161353 THRU 161359 AFTER F18 AFC 19.					
BBP	161353 THRU 161987 BEFORE F18 AFC 86.					
BCQ	161353 THRU 161359 BEFORE F18 AFC					

Table 1. Miscellaneous Terminal Crimping Data (Continued)

Ref Des	Pin	Terminal Part Number	Crimp Tool	Die	Strip Length	Use On Code
BCR		161353 THRU 161359 AFTER AFC 49.				
BCS		F/A-18A 161702 AND UP, F/A-18B 161704 AND UP; ALSO F/A-18A 161353 THRU 161528, F/A-18B 161354 THRU 161360 AFTER F18 AFC 49.				
BCT		F/A-18A 161353 THRU 161528, F/A-18B 161354 THRU 161360 BEFORE F18 AFC 49.				
BCU		F/A-18A 161361 THRU 161528 AND F/A-18B 161360 AFTER F18 AFC 49.				
BEV		161353 THRU 161987 BEFORE F18 AFC 48.				
BGL		162394 AND UP, ALSO 161353 THRU 161987 AFTER F18 AFC 48.				
CFC		F/A-18B 161354 THRU 161924 AFTER F18 AFC 52.				
CFF		F/A-18B 161354 THRU 161924 BEFORE F18 AFC 52.				
CFI		161353 THRU 161924 BEFORE F18 AFC 52.				
DGO		161353 THRU 161987; ALSO F/A-18A 162394 THRU 163144, F/A-18B 162402 AND UP AFTER AFC 93.				
DGP		163119 AND UP, ALSO 161353 THRU 163118 AFTER F18 AFC 90.				
DGQ		F/A-18B 162402 AND UP; ALSO F/A-18B 161353 THRU 161987 AFTER F18 AFC 48.				
DGR		F/A-18A 162394 AND UP; ALSO F/A-18A 161353 THRU 161987 AFTER F18 AFC 48.				
DHA		161925 AND UP; ALSO 161353 THRU 161924 AFTER F18 AFC 52.				
DHB		F/A-18B 161932 AND UP, ALSO F/A-18B 161354 THRU 161924 AFTER F18 AFC 52.				
DHC		F/A-18B 161932 AND UP, ALSO F/A-18B 161354 THRU 161924 BEFORE F18 AFC 52.				
DHD		161520 AND UP, ALSO 161353 THRU 161519 AFTER F18 AFC 39.				
BHE		161353 THRU 161359, 161702 AND UP; ALSO 161360 THRU 161528 AFTER F18 AFC 49.				
BHF		161360 AND UP, ALSO 161353 THRU 1261359 AFTER F18 AFC 49.				

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA**SOLDER SLEEVE INSTALLATION**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides general procedures for the installation of solder sleeves onto both shielded and coaxial wire.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
HT-900	Heating Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
M22795/11-22-5	Shielding Jumper Wire
D100-28	Solder Sleeve
D101-22	Solder Sleeve
<div><div>1</div></div> D108-OX	Solder Sleeve

NOTE

1

 Size required to be determined by technician.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

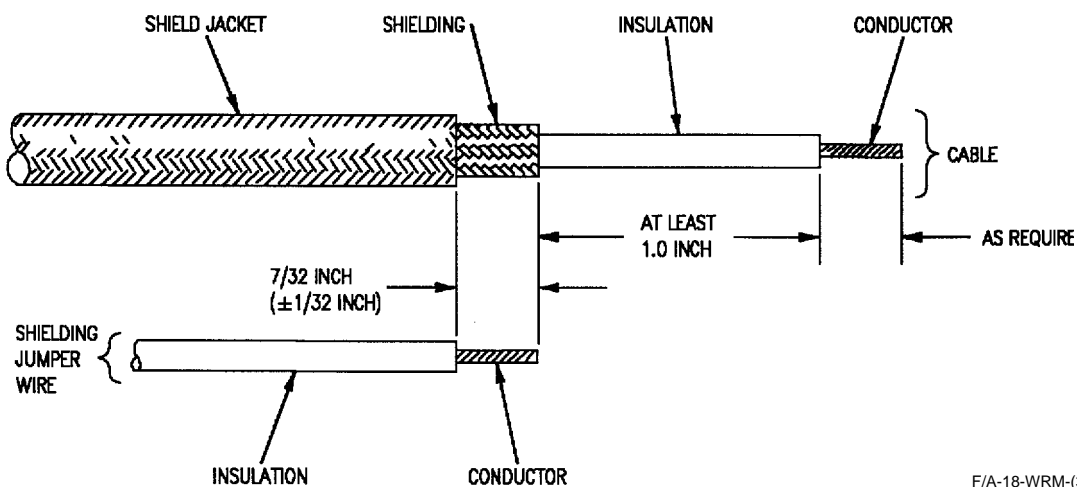
a. Refer to paragraph 4 for installation of solder sleeves to shielded wire or to paragraph 5 for installation of solder sleeves to coaxial wire.

4. INSTALLATION OF SOLDER SLEEVE TO SHIELDED WIRE.

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire stripper.

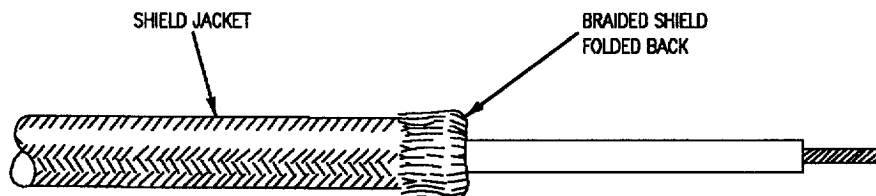
a. Using wire stripper identified in WP004 00, strip cable and shielding jumper wire as shown below. See figure 1.



F/A-18-WRM-(336-1)02-SCAN

Figure 1. Stripping Cable and Shielding Jumper Wire

b. Comb out braided shield and fold back over shield jacket. See figure 2.

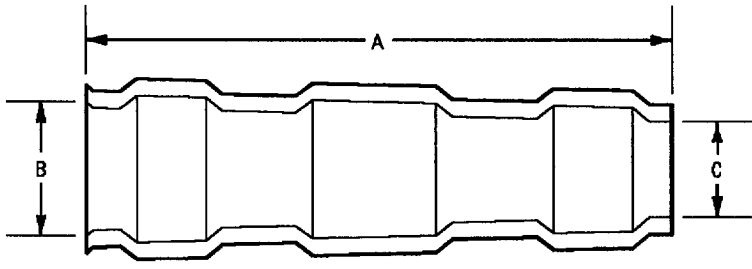


F/A-18-WRM-(336-2)02-SCAN

Figure 2. Combing Out Braided Shield

c. Determine correct size of solder sleeve required. Refer to table 1.

Table 1. Shielded Wire Solder Sleeve

			
PART NUMBER	A (INCH)	B (INCH)	C (INCH)
D-108-00	5/8	3/32	5/64
D-108-01	5/8	1/8	7/64
D-108-02	5/8	13/64	3/16
D-108-03	3/4	5/16	9/32

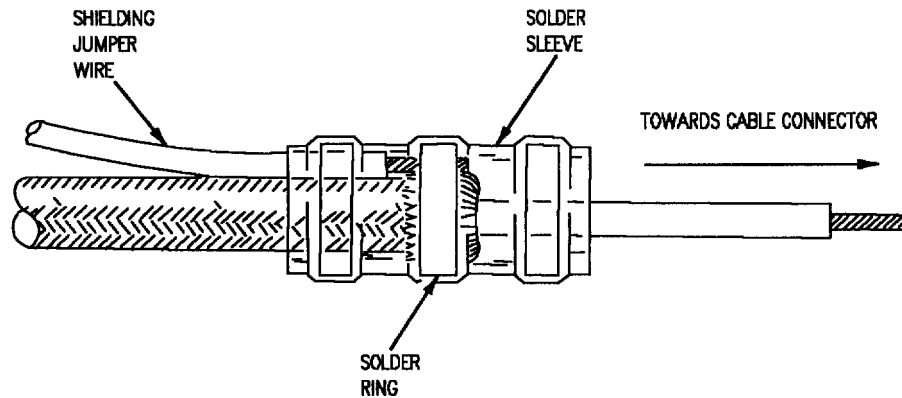
F/A-18-WRM-(1101-1)02-CATI

d. Position shielding jumper wire parallel to and in contact with cable shielding.

NOTE

Make sure that cable shield strands and shielding jumper wire conductor are smooth and flat.

e. With narrow end of solder sleeve toward cable connector, install solder sleeve over shielding jumper wire and cable shielding so that solder ring is centered over exposed shielding. See figure 3.



F/A-18-WRM-(336-3)02-SCAN

Figure 3. Installing Solder Sleeve

WARNING

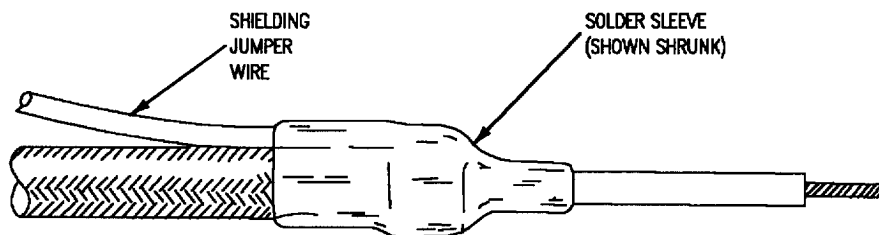
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

NOTE

Complete melting of solder ring is accomplished when soldering ring color changes from dull gray to bright silver, 10 to 30 seconds after initial heat application.

f. Using heat tool, melt solder ring and shrink solder sleeve so that completed splice appears as below. See figure 4.



F/A-18-WRM-(336-4)02-SCAN

Figure 4. Completed Splice

5. INSTALLATION OF SOLDER SLEEVE TO COAXIAL WIRE.

CAUTION

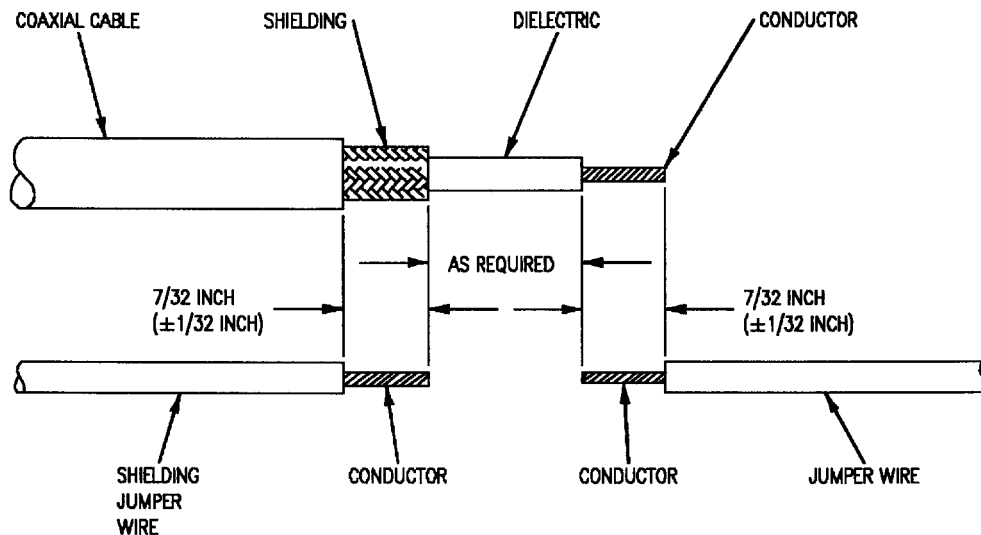
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Cut shielding jumper wires (M22759/11-22-5) to length required.

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire stripper.

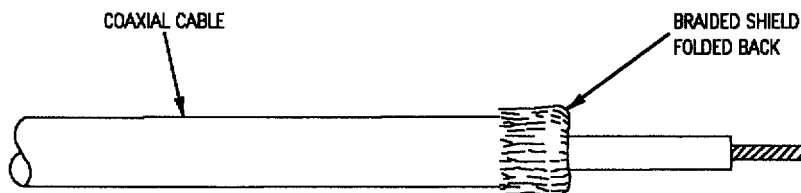
b. Using wire stripper identified in WP004, strip coaxial cable and shielding jumper wires as shown below. See figure 5.



F/A-18-WRM-(336-5)02-SCAN

Figure 5. Cutting and Stripping Coaxial Cable and Shielding Jumper wires

c. Comb out braided shield and fold back over wire jacket. See figure 6.

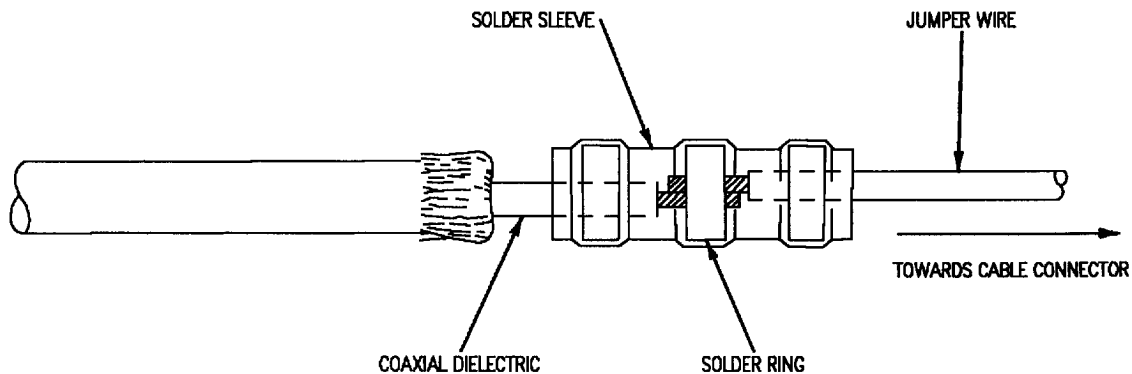


F/A-18-WRM-(336-6)02-SCAN

Figure 6. Comb Out Braided Shield

d. Position solder sleeve (D100-28) over coaxial cable so that sealing ring is toward cable connector and solder ring is centered over conductor.

e. Insert shielding jumper wire (M22759/11-22-5) into solder sleeve so that conductors overlap but do not touch coaxial dielectrics. See figure 7.



F/A-18-WRM-(336-7)02-SCAN

Figure 7. Centering Solder Sleeve

WARNING

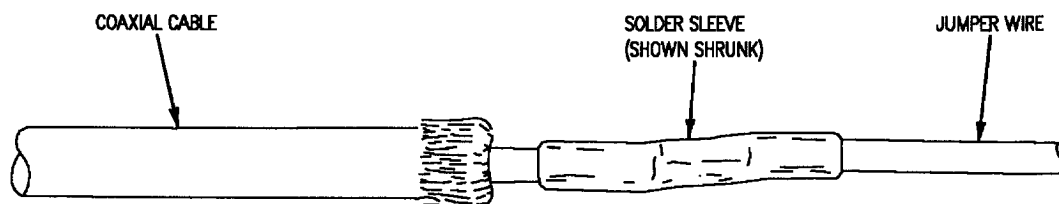
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

NOTE

Complete melting of solder ring is accomplished when solder ring color changes from dull gray to bright silver, 10 to 30 seconds after initial heat application.

f. Using heat tool, melt solder ring and shrink solder sleeve so that completed splice appears as below. See figure 8.



F/A-18-WRM-(336-8)02-SCAN

Figure 8. Shrink Solder Sleeve

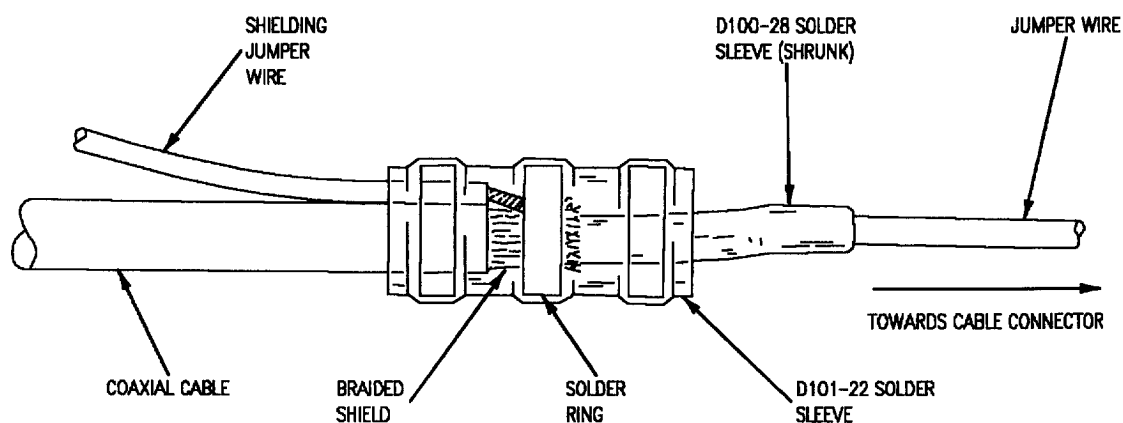
g. Fold combed out braided shield over shrunk solder sleeve (D100-28).

h. Position shielding jumper wire (M22759111-22-5) parallel to and in contact with coaxial shielding.

NOTE

Make sure that coaxial shield strands and shielding jumper wire conductors are smooth and flat.

i. With wide end of solder sleeve (D101-22) toward cable connector, install solder sleeve over shielding jumper wire and coaxial shielding so that solder ring is centered over exposed shielding. See figure 9.



F/A-18-WRM-(336-9)02-SCAN

Figure 9. Installing Solder Sleeve

WARNING

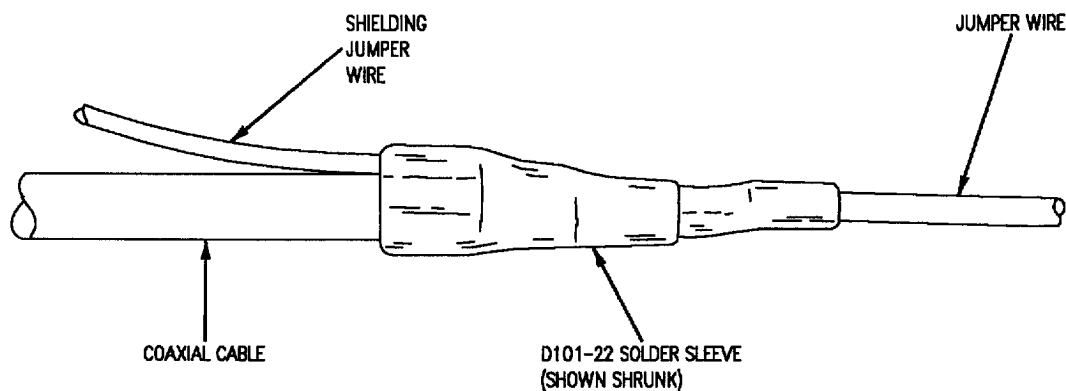
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with the heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

NOTE

Complete melting of solder ring is accomplished when solder ring color changes from dull gray to bright silver, 10 to 30 seconds after initial heat application.

j. Using heat tool, melt solder ring and shrink solder sleeve so that completed splice appears as below. See figure 10.



F/A-18-WRM-(336-10)02-SCAN

Figure 10. Shrink Solder Sleeve

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

SHIELDED TERMINAL FERRULE (HIGH TEMPERATURE)

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

Support Equipment Required

	Part Number or Type Designation	Nomenclature
2. This work package provides general procedures for the installation of shielded terminal ferrules on shielded terminal ferrules on shielded cable.	3308AS100	Repair Set-Wire and Connector
	HT-900	Heat Tool
	1317AS100-1	Nitrogen Servicing Unit - NAN-3
	59500	AMP Crimping Tool

Materials Required**Specification
or Part Number****Nomenclature**



M22795/11-22-5

Shielding Jumper

 M23053/12

Insulation Sleeving

XX-0

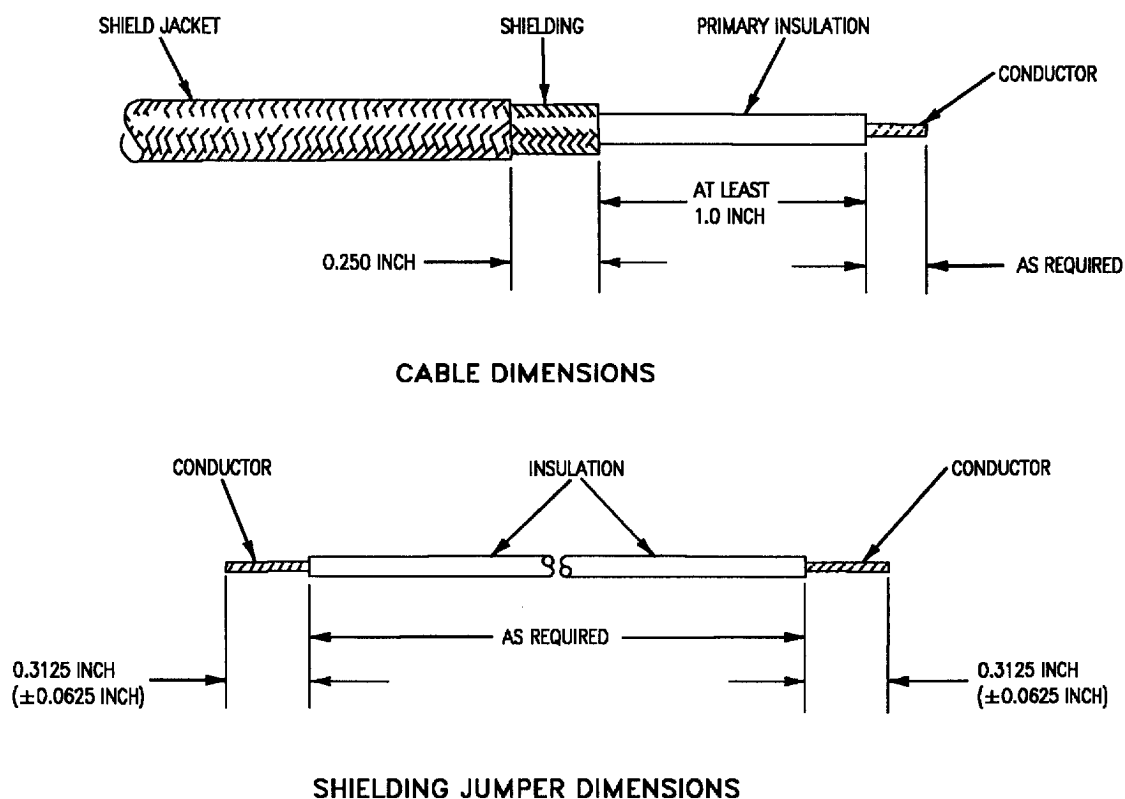
 3280XXShielding Termination
Ferrule 5M608-XXShielding Termination
Ferrule**NOTE** Size required to be determined by
technician.**3. PROCEDURE.**

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE

Identify applicable cable/wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

a. Using wire strippers identified in WP004 00, strip cable and shielding jumper wire as shown below. See figure 1.



F/A-18-WRM-(276-1)02-SCAN

Figure 1. Strip Cable and Shielding Jumper Wire

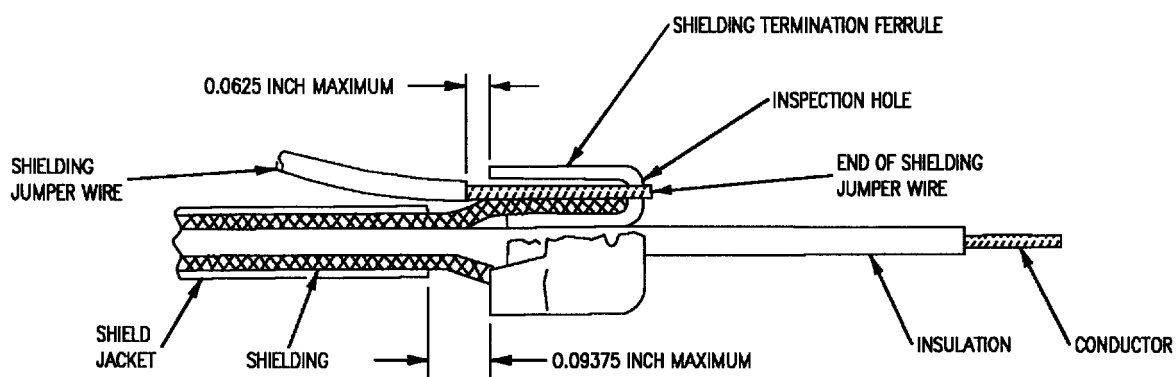
b. Determine ferrule and die set required. Refer to table 1.

Table 1. Ferrule and Die Set Combinations

FERRULE PART NUMBER	INSULATION DIAMETER (INCH)	DIE SET PART NUMBER	DIE SET COLOR CODE
5M608-12 or 328051	0.025 THRU 0.045	45061-2	WHITE
5M608-13 or 328052	0.045 THRU 0.065	45062-2	VIOLET
5M608-14 or 328053	0.065 THRU 0.085	45063-2	BLUE
5M608-15 or 328054	0.085 THRU 0.105	45064-2	BROWN
5M608-16 or 328055	0.105 THRU 0.125	45065-2	ORANGE
5M608-17 or 328056	0.125 THRU 0.145	45066-2	GREEN
5M608-18 or 328057	0.145 THRU 0.170	45238-2	VIOLET
5M608-19 or 328058	0.170 THRU 0.195	45239-2	BLUE
5M608-20 or 328059	0.195 THRU 0.220	45240-2	BROWN
5M608-21 or 328060	0.220 THRU 0.245	45241-2	ORANGE
5M608-22 or 328061	0.245 THRU 0.270	45158-2	GREEN

c. Install shielding termination ferrule onto cable and shielding.

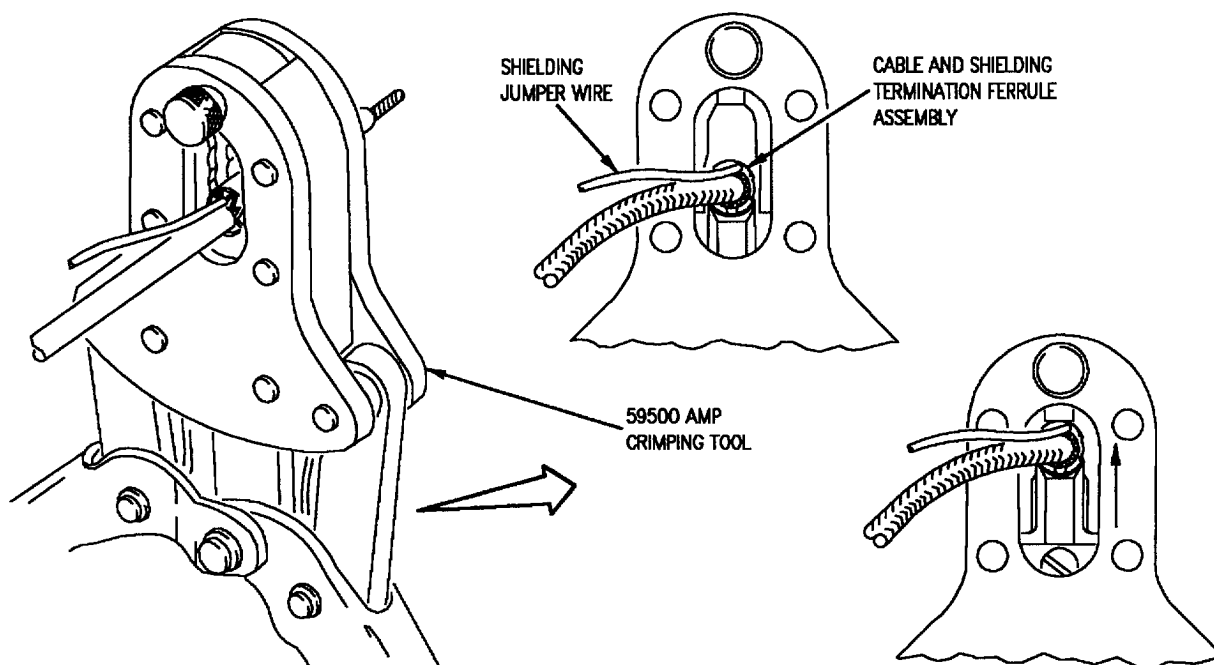
d. Insert shielding jumper wire into shielding termination ferrule so that end of jumper wire is visible through inspection hole of ferrule.



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Figure 2. Installing Shielding Termination Ferrule

e. Using 59500 AMP crimping tool and die set required by table 1, crimp cable and shielding termination ferrule assembly.

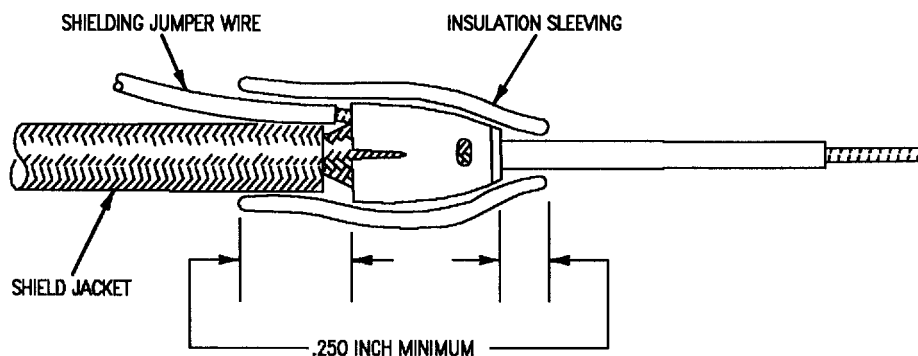


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Figure 3. Crimping Cable and Shielding Termination Ferrule Assembly

f. Slide insulation sleeving over shielding termination ferrule assembly, making sure that ends of insula-

tion sleeving extend at least 1/4-inch past ends of shielding termination ferrule.



F/A-18-WRM-(276-4)02-SCAN

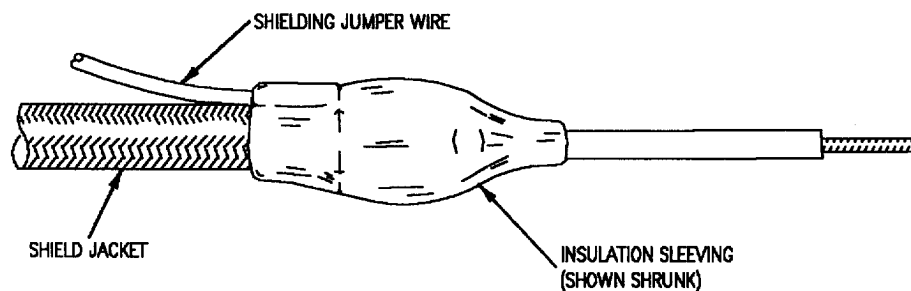
Figure 4. Sliding Insulation Sleeving

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

g. Shrink insulation sleeving using heat tool.



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Figure 5. Shrink Insulation Sleeving

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
WIRING REPAIR WITH PARTS DATA**PREWIRED COMPONENTS**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Wire Type List	WP004 00

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Strip Prewired Component Wiring and Aircraft Wiring, Figure 1	2

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package provides general procedures for splicing of prewired components to aircraft wiring. A prewired component comes with wires already attached (prewired). These wires must then be spliced to existing aircraft wiring.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
HT-900	Heat Tool
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required**3. PROCEDURE.****Specification
or Part Number****Nomenclature**

M81824/1-X	Splice, Conductor
D-436-36	Splice, Conductor (Red)
D-436-37	Splice, Conductor (Blue)
D-436-38	Splice, Conductor (Yellow)

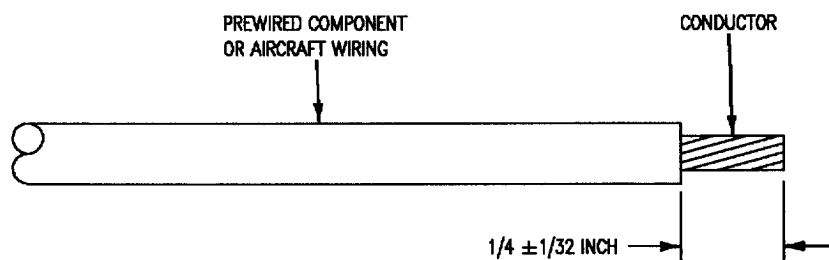
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE**NOTE**

Size required to be determined by technician.

Identify applicable wiring assembly in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070, then refer to Wire Type List (WP004 00) for correct wire strippers.

a. Using wire strippers identified in WP004 00, strip prewired component wiring and aircraft wiring as shown below. See figure 1.



F/A-18-WRM-(278-1)02-SCAN

Figure 1. Strip Prewired Component Wiring and Aircraft Wiring

b. Determine crimp splice required. Refer to table

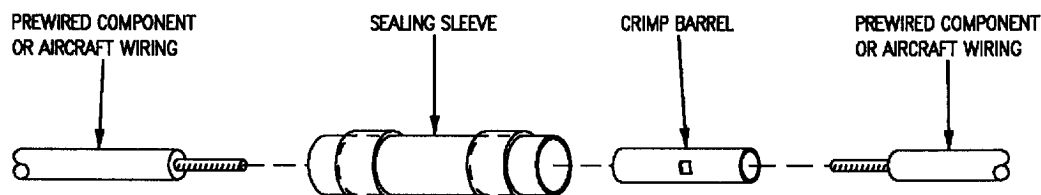
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Table 1. Crimp Splices

CRIMP SPLICE PART NUMBER	COLOR CODE	WIRE SIZE AWG
M81824/1-1	RED	20, 22, 24
M81824/1-2	BLUE	16, 18, 20
M81824/1-3	YELLOW	12, 14, 16

c. Slide sealing sleeve over one end of prewired component wiring or aircraft wiring.

d. Install crimp barrel on end of wire. See figure 2.

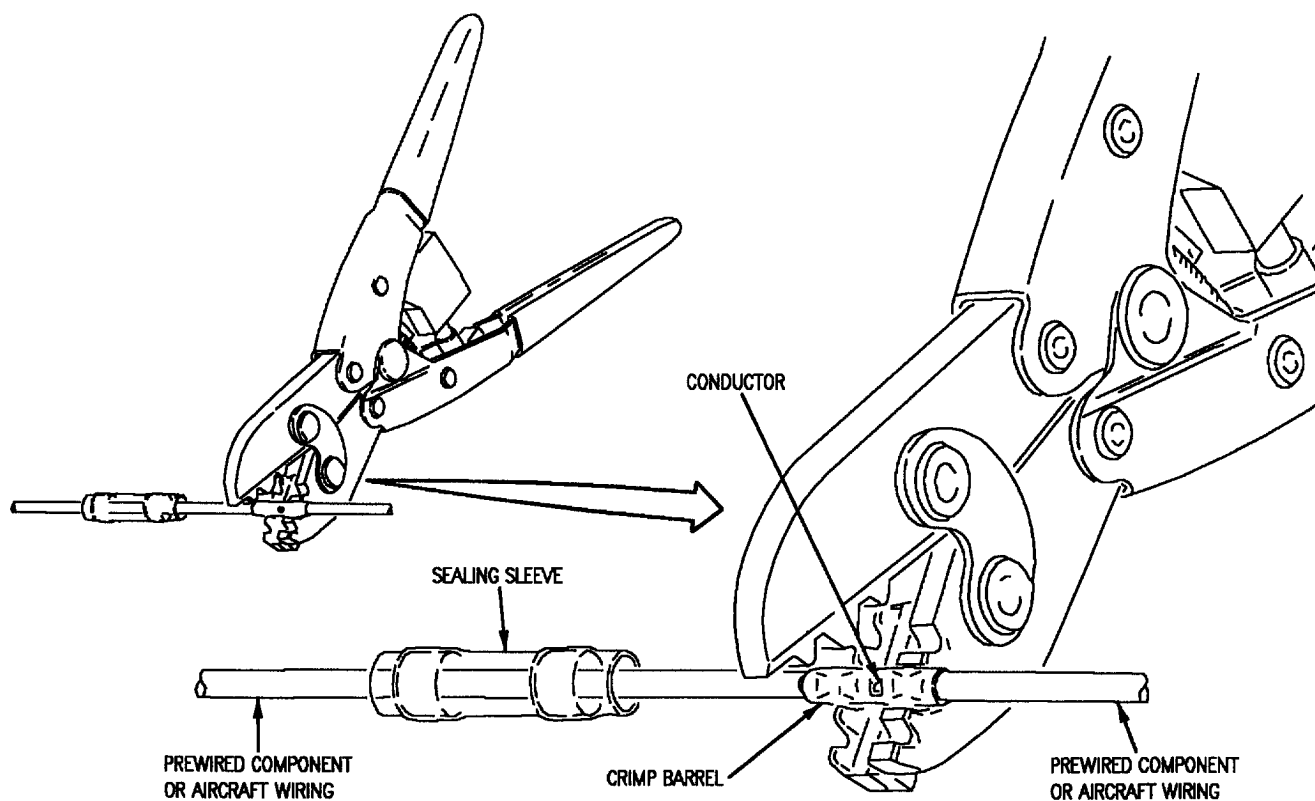


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Figure 2. Installing Sealing Sleeve and Crimp Barrel

e. Make sure conductor is visible in center of crimp barrel and crimp wire using GMT 232 crimping tool supplied with wire and connector repair set.

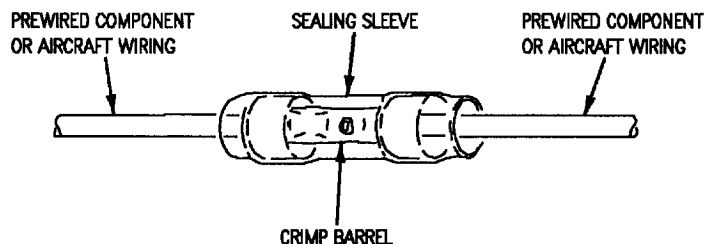
f. Insert conductor of other wire into open end of crimp barrel and crimp using GMT 232 crimping tool. See figure 3.



F/A-18-WRM-(278-3)02-SCAN

Figure 3. Crimping Crimp Barrel and Conductor

g. Center sealing sleeve over crimp barrel. See figure 4.



F/A-18-WRM-(278-4)02-SCAN

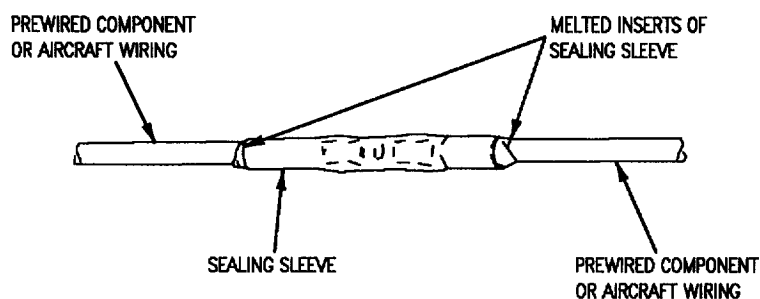
Figure 4. Centering Sealing Sleeve

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

h. Using heat tool, apply heat starting at one end of sealing sleeve until melted insert flows from end of sleeve then moves along sleeve until insert at opposite end of sleeve melts and flows along wire. See figure 5.



F/A-18-WRM-(278-5)02-SCAN

Figure 5. Heating Sealing Sleeve

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

REPAIR OF SILICONE RUBBER TAPE BOOTS

Reference Material

Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Repair of Multi Conductor Shielded Wire	WP030 00
Repair of Single Conductor Non-Shielded Wire	WP026 00
Repair of Single Conductor Shielded Wire	WP028 00
Repair of Shielded/Non-Shielded Braided Wiring Harness	WP032 00
Shielded Cable Splice Terminations	WP031 00

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Record of Applicable Technical Directives

None

1. DESCRIPTION.

Materials Required

2. This work package explains the procedure for the repair of silicone rubber tape boots.

Specification
or Part Number

Nomenclature

Support Equipment Required

None

MIL-T-43435TYPE-2,
SIZE-3FINISH-C
MIL-I-46852,TYPE-2
1.000IN.BLK

Tape, Lacing
Tape, Insulation

3. **PROCEDURE.** See figure 1.



Use extreme caution when removing silicone rubber tape boots to prevent wire damage.

- a. If required, remove spot tie.
- b. Remove all or partial section of silicone rubber tape boot as required around damaged area with diagonal cutting pliers.
- c. Inspect for wire damage.
- d. If damaged wires are found, remove additional silicone rubber tape boot as required to make a more thorough inspection.

e. Repair damaged wires as required as shown in WP026 00 through WP032 00.

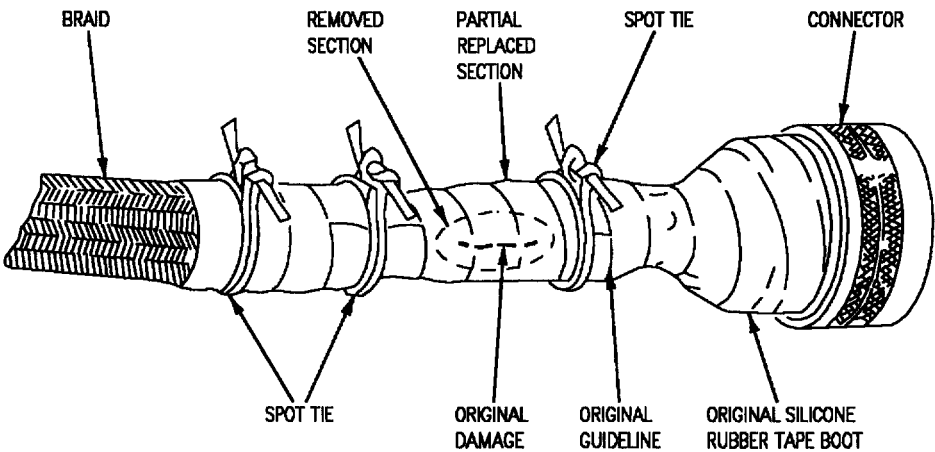
f. Reinstall complete new silicone rubber tape boot.

NOTE

Maintain a 50 percent overlap.

g. If no wire damage is found and partial boot replacement is required, rewrap exposed area using silicone rubber tape (table 1) overlapping exposed area at least one-half of tape width. Follow original guideline while wrapping.

h. Spot tie tape ends with lacing tape.



F/A-18-WRM-(676-1)02-SCAN

Figure 1. Repair of Silicone Rubber Tape Boot

Table 1. Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-46852, TYPE 2, 1.000IN-.BLK	81349	1.000
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****FABRICATION OF SHIELDED HARNESS TERMINATED WITH ELECTROMAGNETIC INTERFERENCE
(EMI) BACKSHELLS**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00

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



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

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 19	-	Addition of a Second Shoot Light Power Supply Connector (WUC 44314)	1 Oct 93	-
F/A-18 AFC 26	31 Jan 90	Air Turbine Starter System/Airframe Mounted Accessory Drive (AMAD), Modification of	1 Oct 93	-
F/A-18 AFC 54	-	Video Recorder Set, Incorporation of	1 Oct 93	-
F/A-18 AFC 74	-	Installation of Aircraft Wiring Provi- sions for Additional Weapons Capa- bility (ECP MDA-F/A-18-2120 PT2)	1 Dec 87	-




















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 12J-G060	26
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



















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







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










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



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




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























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 161702 AND UP	
 F/A-18A 161353 THRU 163144 AND F/A-18B	
 F/A-18B 161704 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 54	
 161353 THRU 161359 BEFORE F18 AFC 19	
 161353 THRU 161519 AFTER F18 AFC 26	
 161737 AND UP	
 162826 AND UP	
 F/A-18A	
 F/A-18B	
 163092 AND UP,	
 161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 74	
 F/A-18A 161702 AND UP	
 F/A-18B 161704 AND UP	
 161353 THRU 161761, AND 161924	
 162889 AND UP	
 161353 THRU 162888	
 USED ON 74A770157-9ABA	
 USED ON 74A770157-9AHA, -9BAA	

1. DESCRIPTION.

2. The G7056 and G7925 EMI backshells are right angle backshells with strain relief provisions.

3. The G7057, G7183, G7924 and S2127 EMI backshells are straight backshells with strain relief provisions.

4. The J1317 EMI adapter is a two piece adapter used to install EMI backshells on rectangular connectors.

5. The J1311F Cable Clamp is a rectangular cable clamp used on insert connectors with strain relief provisions.

6. The S2160 and S2163 adapters are metal adapters which are used to mate connectors with accessory hardware of a different size. S2160 mates MIL-C-38999 series 1 and 2, S2163 mates series 3 and 4.

7. The S2029 adapter is an extender for MIL-C-38999 series 1 and 2 connectors. Accessory hardware is mated to the extender in the same way it is mated to the connector.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire And Connector

Materials Required

Specification or Part Number	Nomenclature
See Table 2	Silicone Rubber Tape
See Table 3	Wire Mesh Tape
See Table 4	Plastic Tiedown Strap

Materials Required (Continued)

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040 (81348)	Solder
MIL-T-43435TYPE-2 SIZE-3 FINISH-C	Tape, Lacing
See Table 1	Tape, Insulation

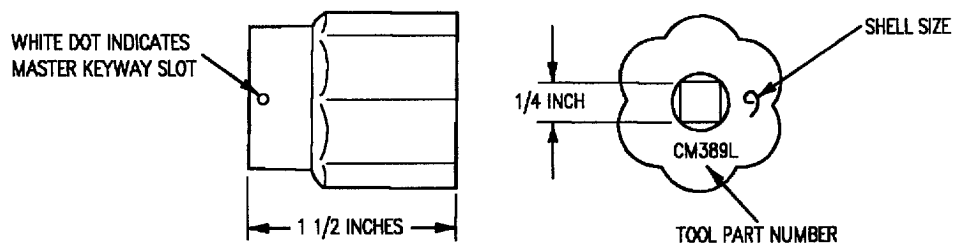
8. PROCEDURE.



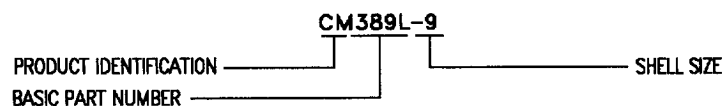
White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

9. CM ADAPTER TOOLS

a. CM adapter tool is shown in figure 1. Select tool part number to shell size from tool data in reference designation to backshell data index for specific cable clamp.



MIL-C-38999 SERIES 1



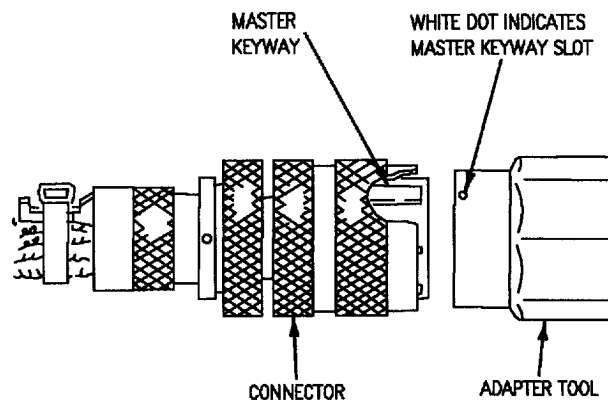
F/A-18-WRM-(500-18)02-CAT I

Figure 1. CM Adapter Tool Part Numbering System



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

b. Mate adapter tool to connector. See figure 2.



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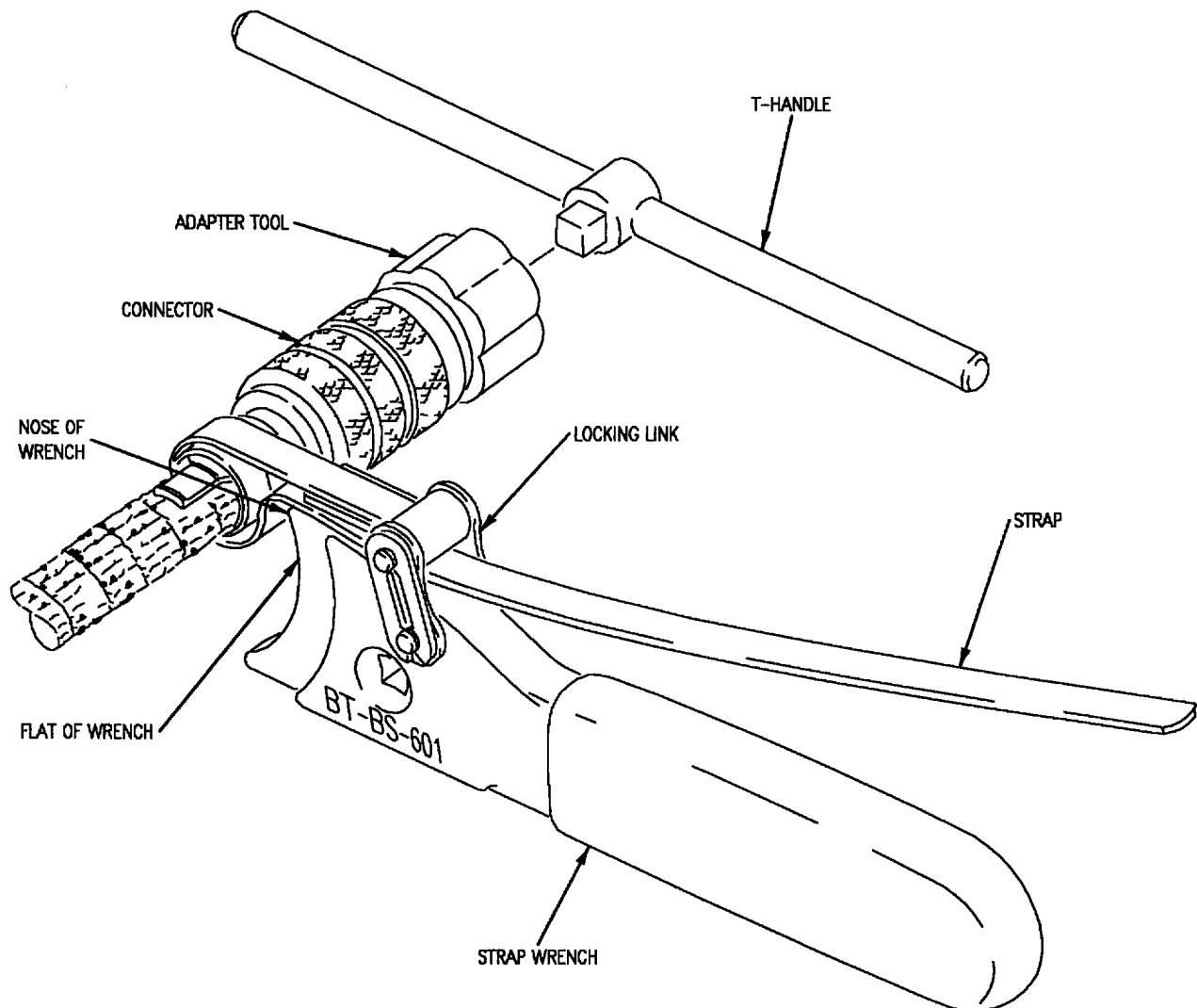
Figure 2. Adapter Tool Mating

10. STRAP WRENCH

NOTE

a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rest on nose of wrench. See figure 3.

T-Handle can be used for additional gripping force to adapter if required.

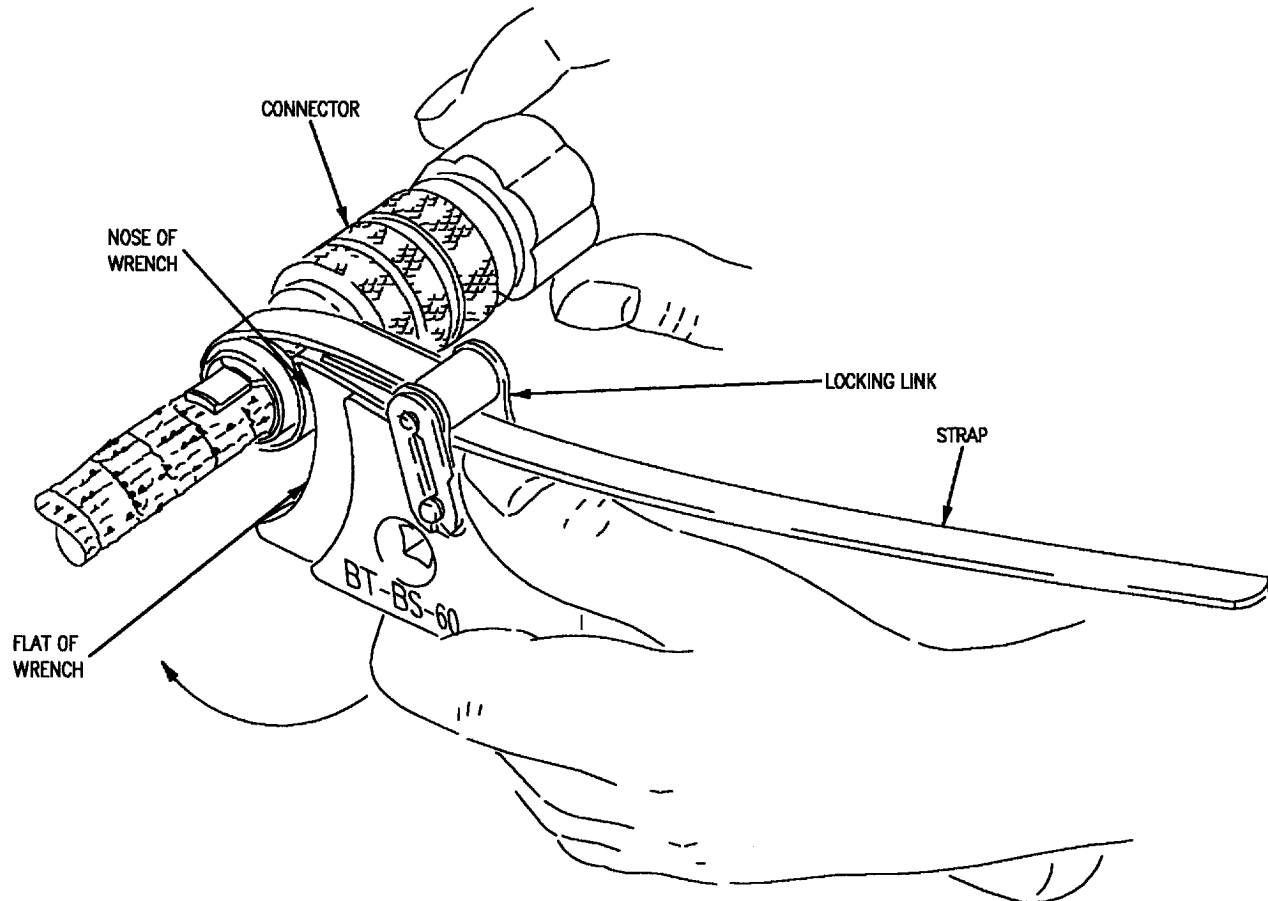


F/A18-WRM-000-(281-1)01-SCAN 40

Figure 3. Strap Wrench Setup and Adjustment

b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector. The clamp and strap are tucked beneath the nose

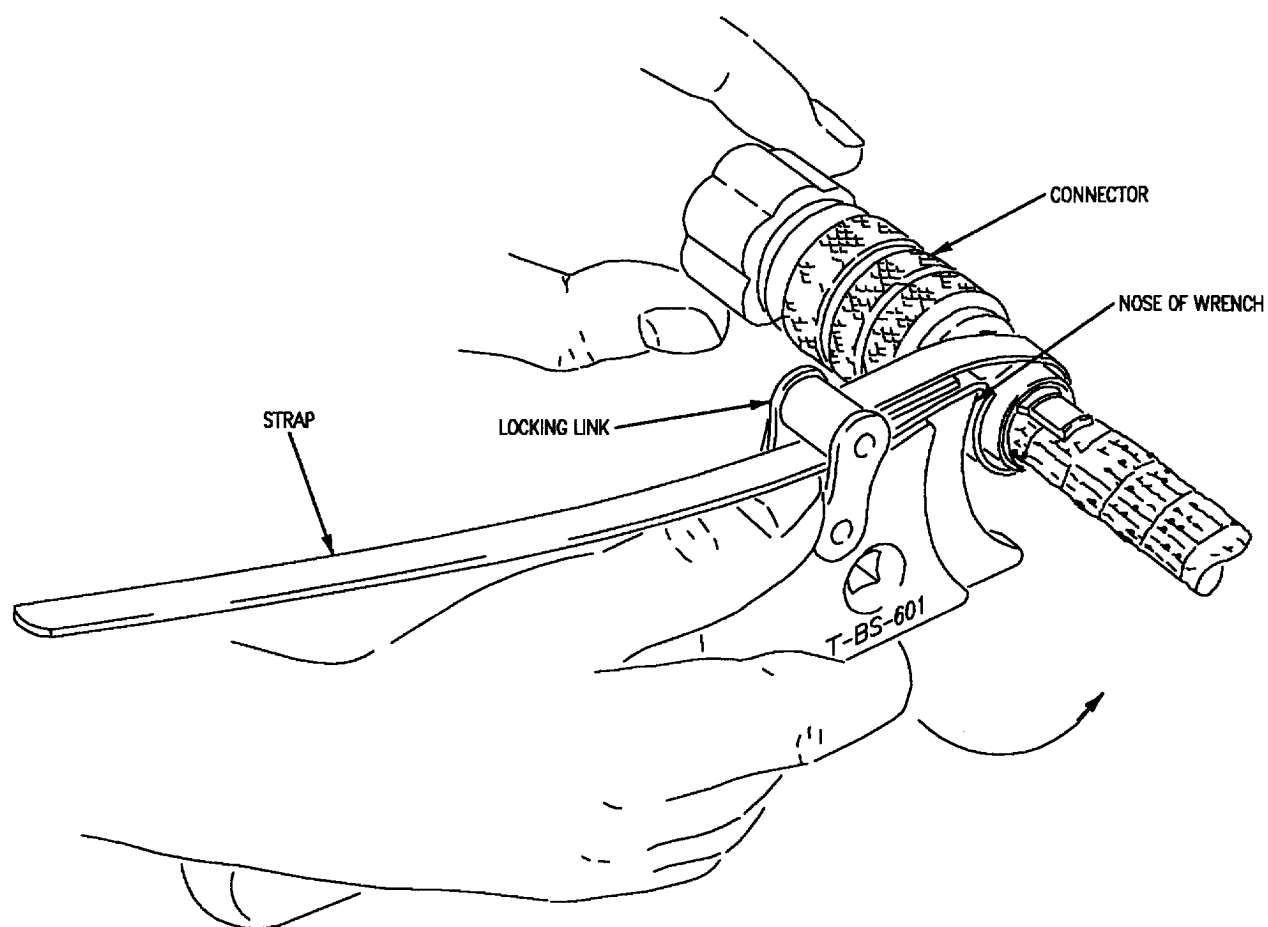
of the wrench and against the flat of the wrench. See figure 4.



18AE-WRM-000-(281-2)01-SCAN 34

Figure 4. Tightening Position of Wrench

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector. See figure 5.

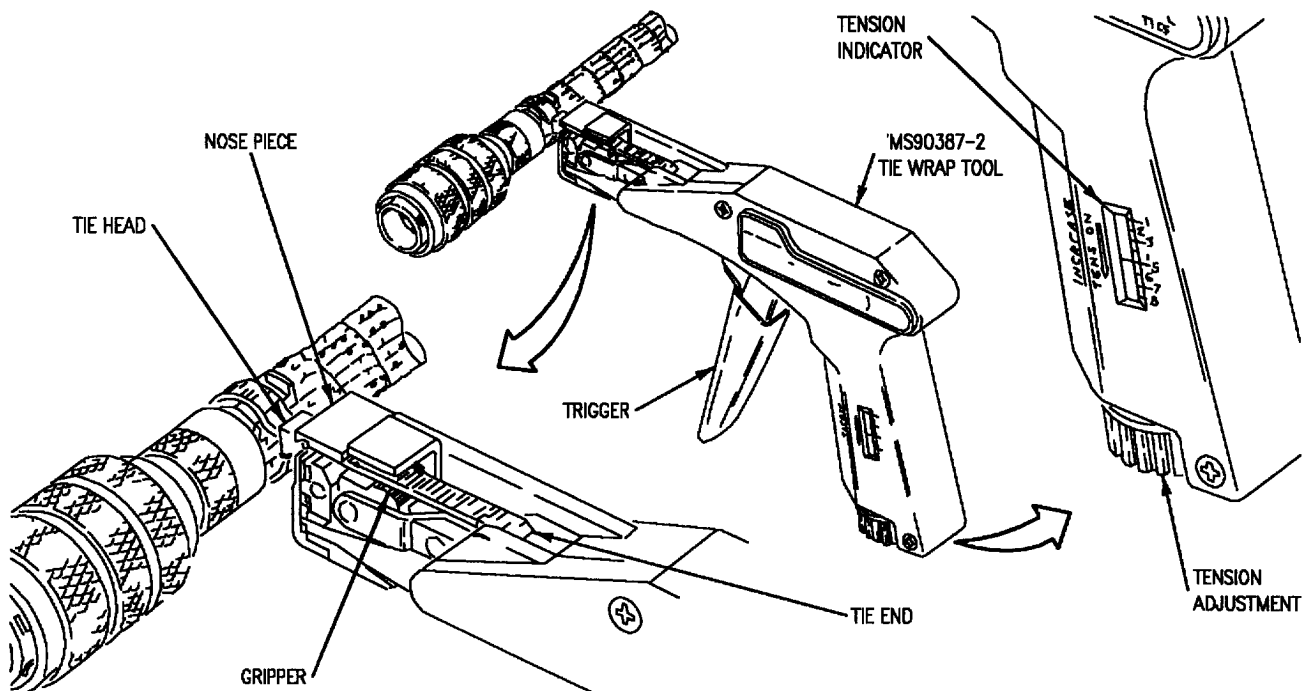


F/A18-WRM-000-(281-3)01-SCAN 34

Figure 5. Loosening Position of Wrench

11. TIE WRAP TOOL

- a. Adjust tool as specified in figure 6.
- b. Install cable tie around the cable/harness assembly.
- c. Thread tie end through slot in tie head and manually pull tight around harness assembly.
- d. Insert tie end through nose piece of tool and pull against tie head.
- e. Center cable tie in tool slot and over gripper.
- f. Squeeze trigger until cable tie is cut off flush with tie head.
- g. Release trigger and discard cut off end of cable tie.

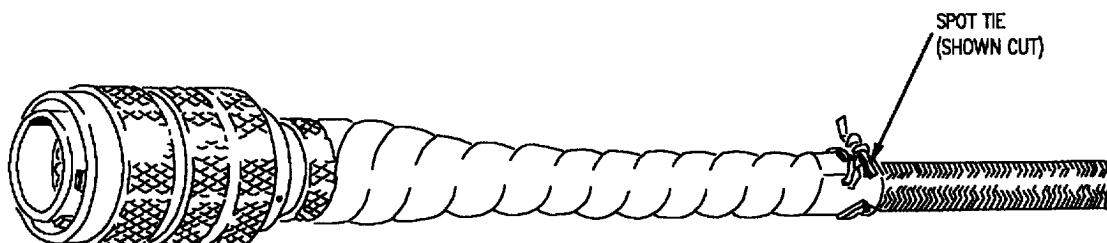


F/A18-WRM-000(282-1)01-SCAN 28

Figure 6. Tie Wrap Tool

12. DISASSEMBLY PROCEDURE

- a. Remove spot tie from silicone rubber tape boot. See figure 7.



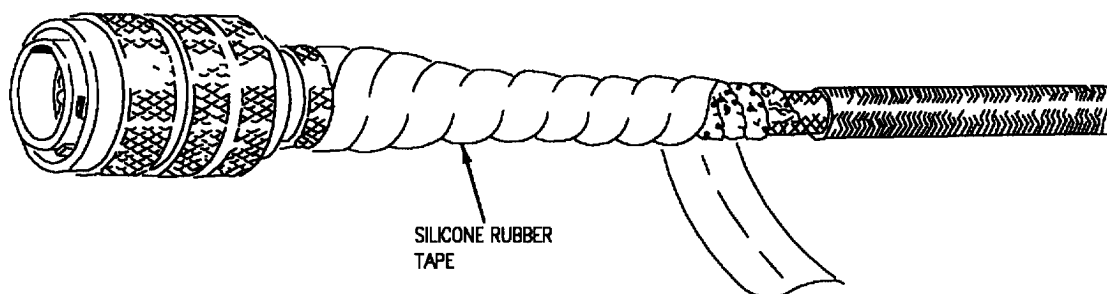
F/A18-WRM-000(283-1)01-SCAN 13

Figure 7. Spot Tie Removal



When cutting boot material with a sharp tool, extreme care must be taken not to nick or scrape the wire insulation beneath the cut.

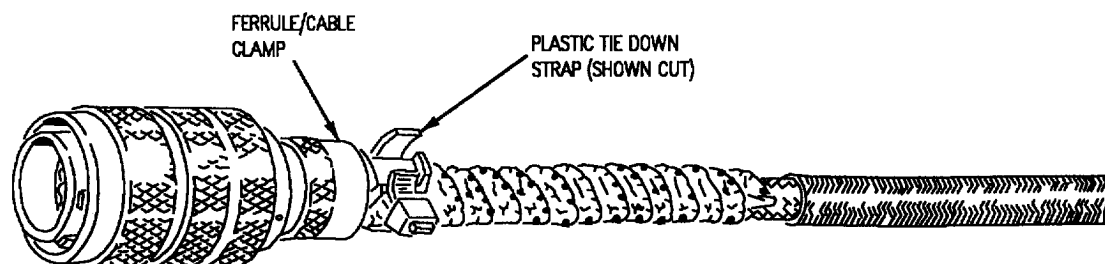
- b. Unwrap or cut silicone rubber tape and remove from the boot area. See figure 8.



F/A18-WRM-000-(283-2)01-SCAN 14

Figure 8. Silicone Rubber Tape Boot Removal

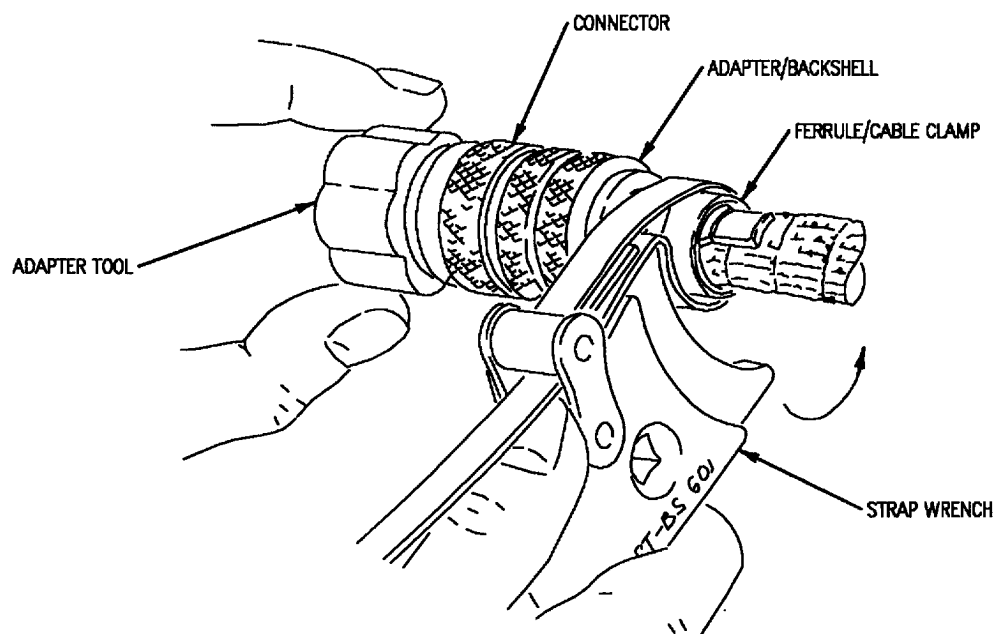
c. Cut and remove plastic tie down strap from ferrule/cable clamp. See figure 9.



F/A18-WRM-000-(283-3)01-SCAN 13

Figure 9. Plastic Tie Down Strap Removal

d. Remove ferrule/cable clamp from adapter/back-shell. See figure 10.



F/A18-WRM-000-(281-4)01-SCAN 24

Figure 10. Ferrule/Cable Clamp Removal

e. Remove teflon barrier tape. See figure 11.

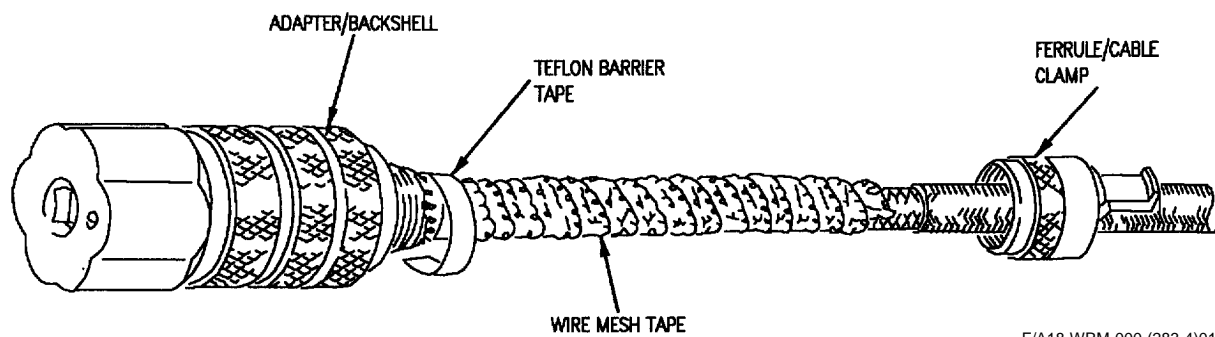


Figure 11. Teflon Barrier Tape Removal at Backshell

f. Unwrap wire mesh tape and remove reinforced silicone rubber tape. See figure 12.

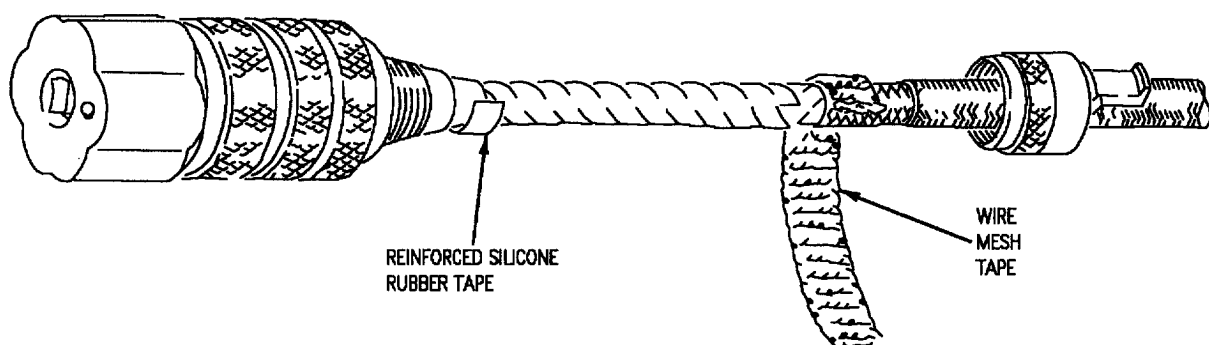
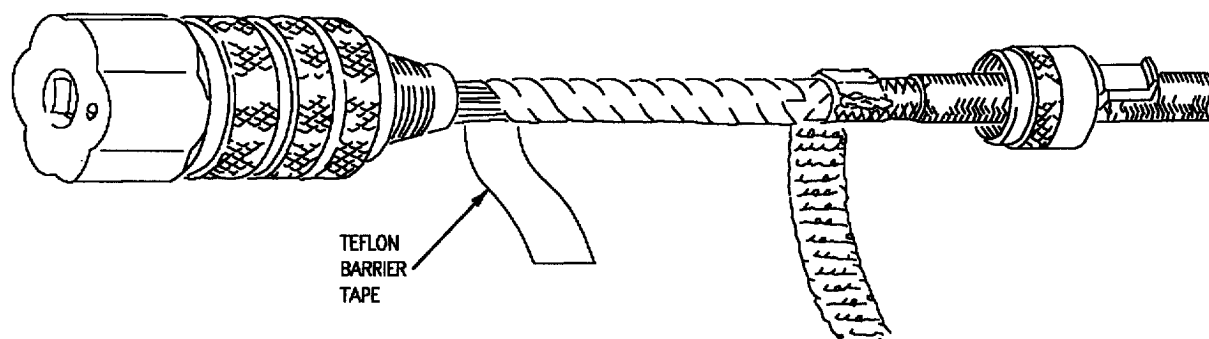


Figure 12. Wire Mesh Tape Removal

g. If removal of wire mesh from the harness/cable assembly is required, unsolder from wire braid.

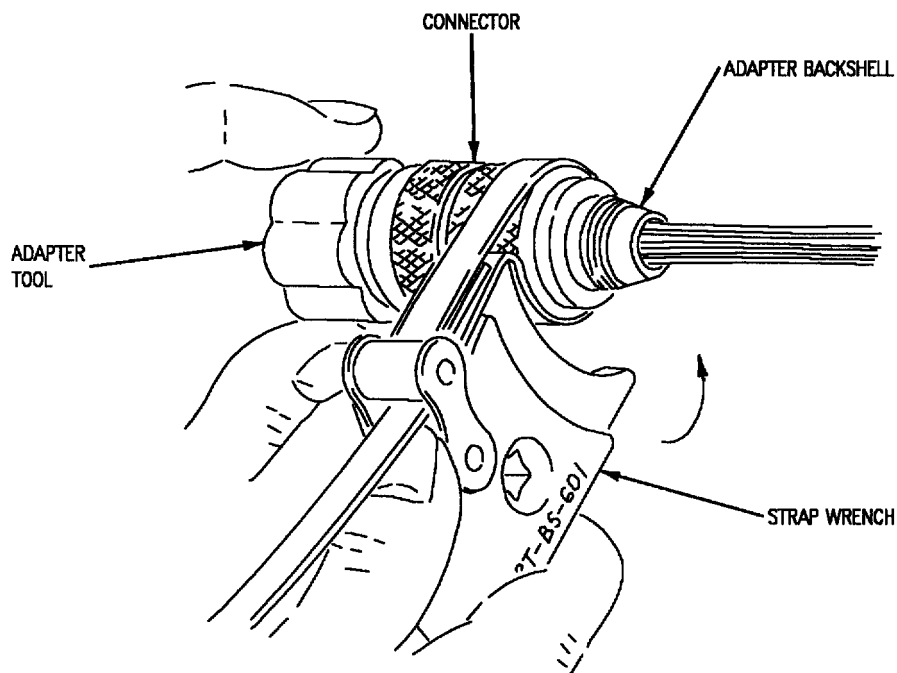
h. Unwrap teflon barrier tape. See figure 13.



F/A18-WRM-000-(283-6)01-SCAN 18

Figure 13. Teflon Barrier Tape Removal

i. Removal adapter/backshell. See figure 14.

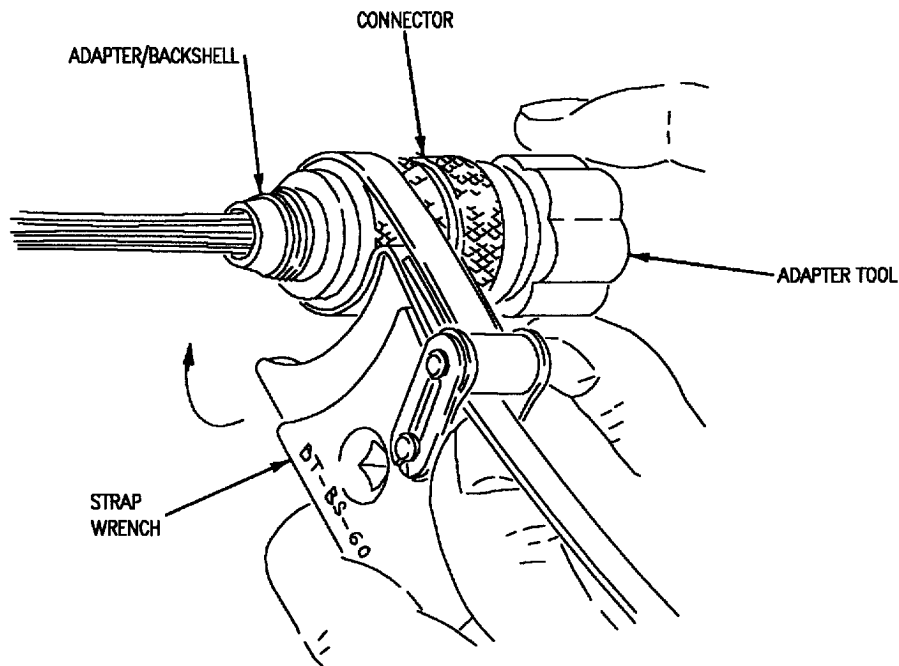


F/A18-WRM-000-(281-5)01-SCAN 25

Figure 14. Adapter/Backshell Removal

13. REASSEMBLY PROCEDURE

- a. Slide adapter/backshell onto connector and tighten. See figure 15.



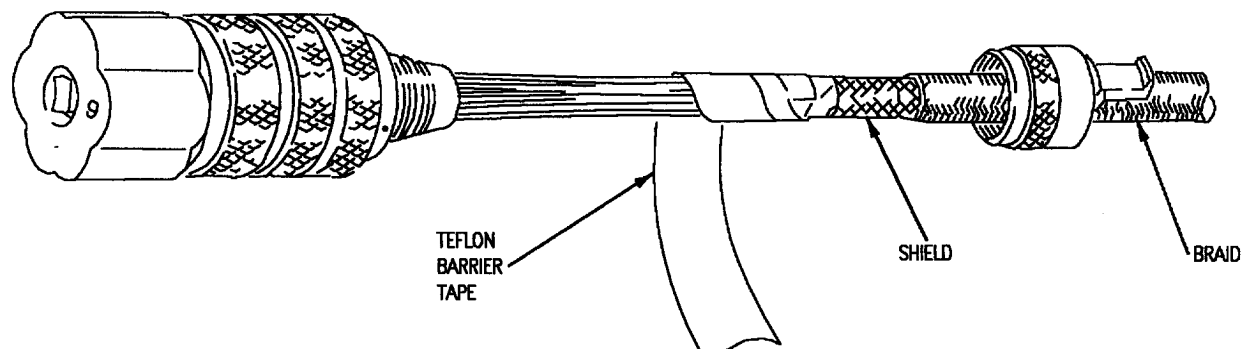
F/A18-WRM-000-(281-6)01-SCAN 25

Figure 15. Installation of Adapter Backshell

Table 1. Insulation Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-18746-1.000X.005X.36YDS	81349	1.000
MIL-I-23594, TYPE 2, 1/2 IN. WIDE	81349	.500
SELF - BONDING TAPE COMES IN ROLLS		

b. Spiral wrap exposed wire with teflon barrier tape. See figure 16.



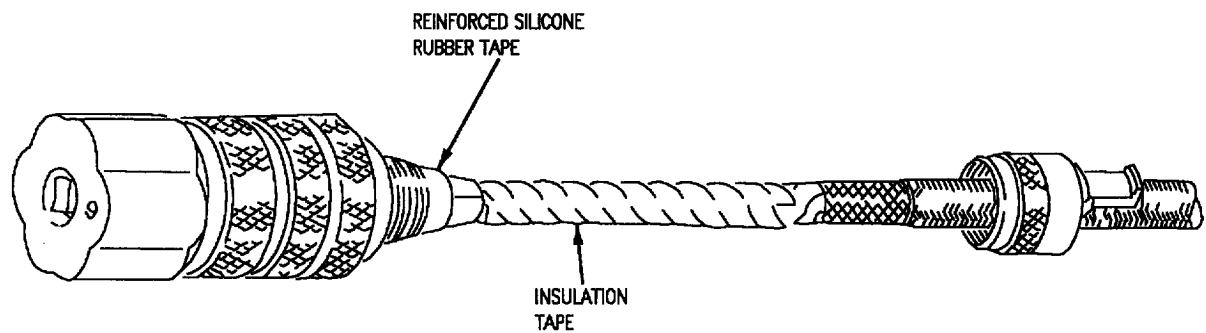
F/A18-WRM-000-(283-7)01-SCAN 17

Figure 16. Spiral Wrapping Teflon Barrier Tape

Table 2. Teflon Barrier Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-46852, TYPE 2, 1.000IN.BLK	38138 07099	1.000 1.000
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE; -178° TO +500°F		

c. Build up a tapered area of reinforced silicone rubber tape behind the adapter/backshell. See figure 17.



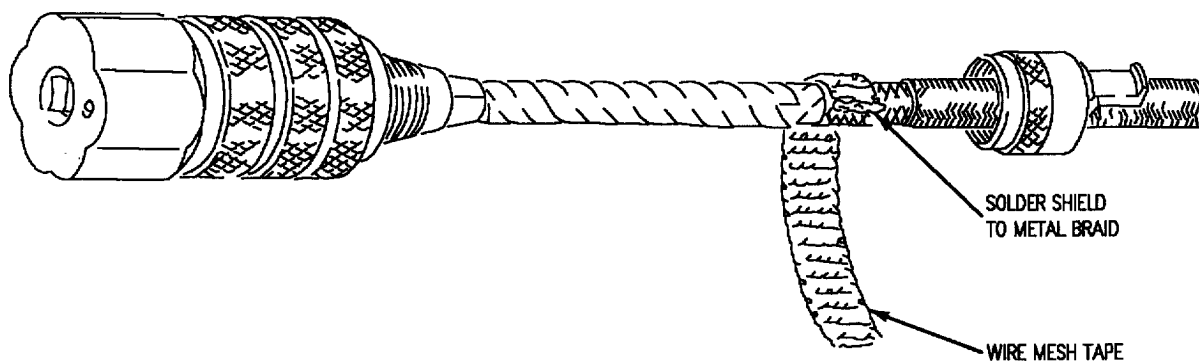
F/A11-WRM-000-(283-8)01-SCAN 13

Figure 17. Silicone Rubber Tape Buildup

Table 3. Wire Mesh Tape

PART NUMBER	CAGE	WIDTH (INCH) NOMINAL	THICKNESS (INCH) NOMINAL	WIRE DIAMETER (INCH)
SC61289	22798	1.000	1/64	3/64 (37 GAGE)
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES. TEMPERATURE RANGE: -65° TO +300°F				

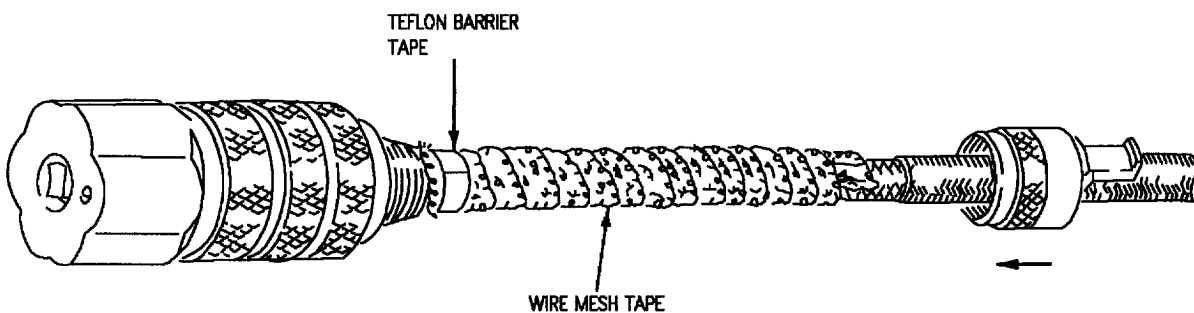
d. If necessary, solder wire mesh tape to metal braid. See figure 18.



F/A18-WRM-000-(283-9)01-SCAN 17

Figure 18. Soldering Wire Mesh Tape to Shield

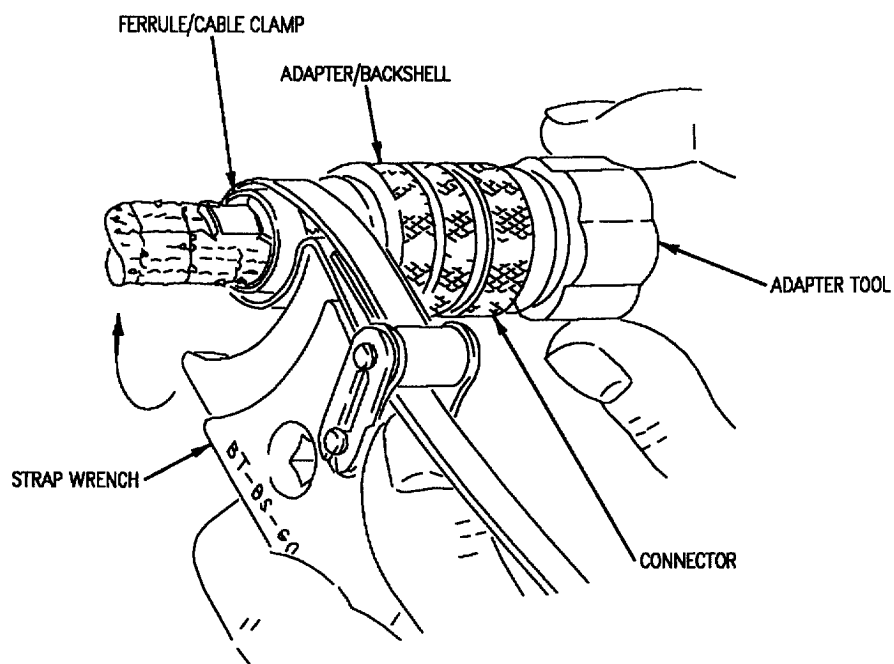
e. Wrap wire mesh tape with a 50 percent overlap and secure in place with teflon barrier tape. See figure 19.



F/A18-WRM-000-(283-10)01-SCAN

Figure 19. Securing Wire Mesh Tape Wrap

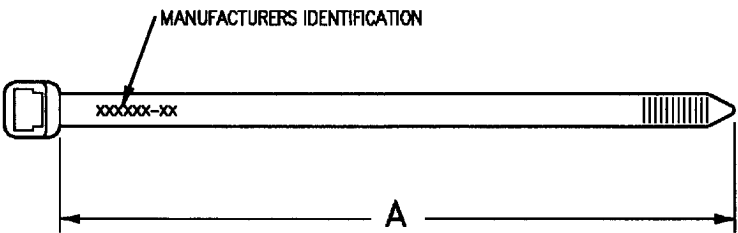
f. Install ferrule/cable clamp and tighten with strap wrench. See figure 20.



F/A18-WRM-000-(281-7)01-SCAN 25

Figure 20. Ferrule/Cable Clamp Installation

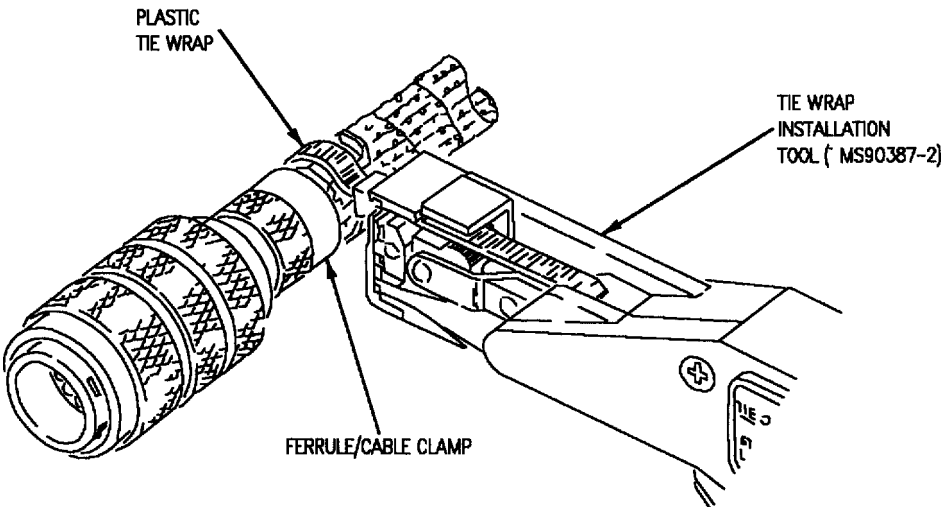
Table 4. Plastic Tie Down Strap



F/A-18-WRM-(510-1)01-CAT1

PART NUMBER	LENGTH A (INCH)	CONNECTOR SHELL SIZE	MS90387-1 TOOL TENSION SETTING	MILITARY SPECIFICATION
PLT-2S-CP30	6-1/32	8 THRU 19	6	MIL-S-23190
PLT4H-C30	12.00	20 THRU 25	8	MIL-S-23190
SST-2H-C30	7-1/2	20 THRU 25	8	MIL-S-23190
TEMPERATURE RANGE: -65° TO +300°F				

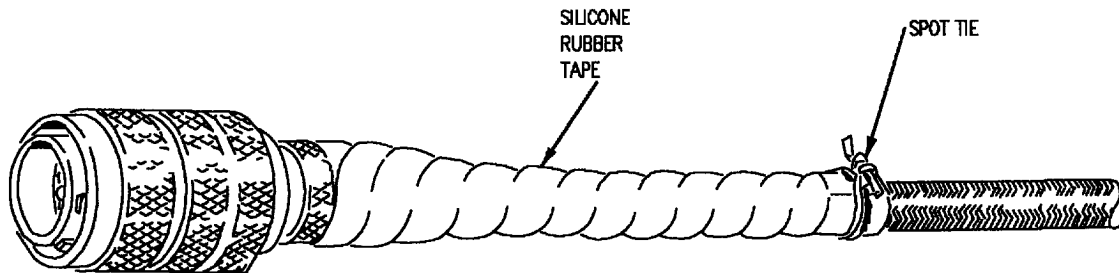
g. Install plastic tie wrap with tie wrap installation tool. See figure 21.



F/A18-WRM-000-(281-8)01-SCAN 21

Figure 21. Securing Ferrule/Cable Clamp

h. Wrap wire mesh tape with a 50 % overlap of silicone rubber tape and secure the end with a spot tie of lacing tape. See figure 22.



F/A18-WRM-000-(283-11)02-SCAN

Figure 22. Securing Silicone Rubber Tape Boot

14. REMOVAL OF J1317 EMI ADAPTER.

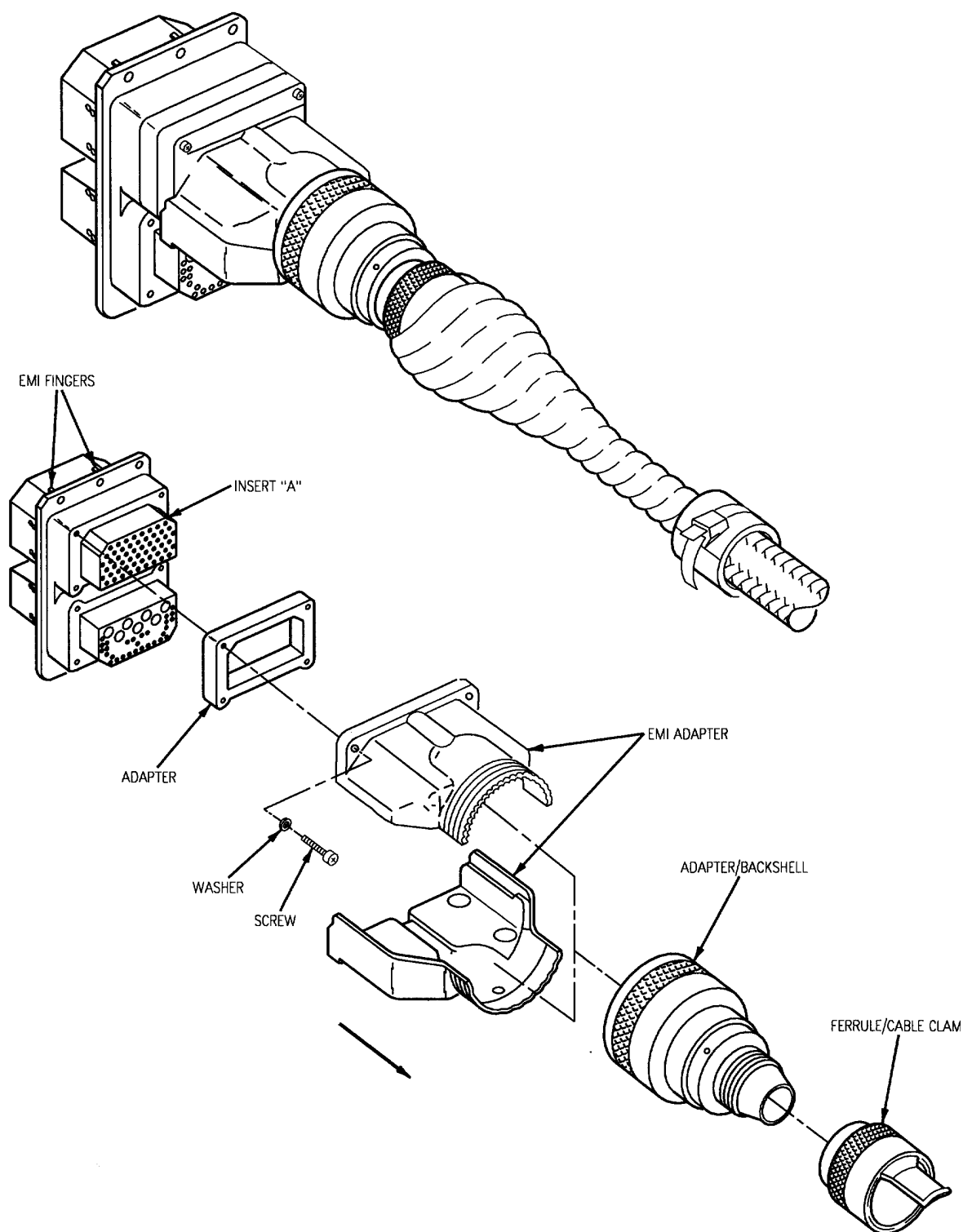
15. The J1317 EMI adapter is a two piece adapter used to adapt circular EMI backshells to rectangular connectors.

16. **REMOVAL.** To remove J1317 EMI a from connectors, do substeps below:

a. Remove ferrule/cable clamp and adapter/back-shell per paragraph 12.

b. Remove 4 screws attaching EMI adapter to rear of connector. See figure 23

c. Remove two piece EMI adapter from rear of connector.

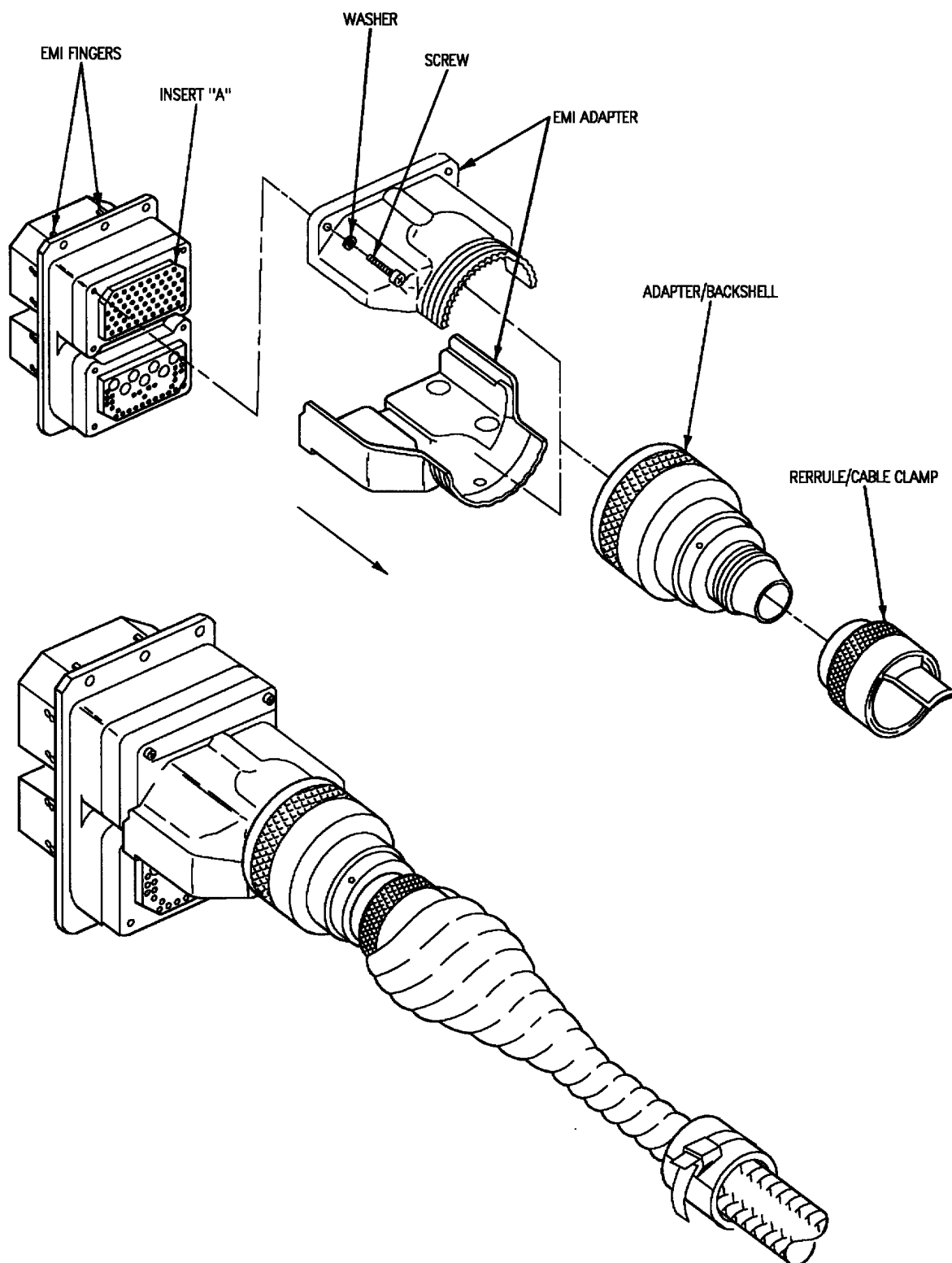


F/A-18-WRM-(1036-1)01-CAT1

Figure 23. Removal of J1317 EMI Adapter

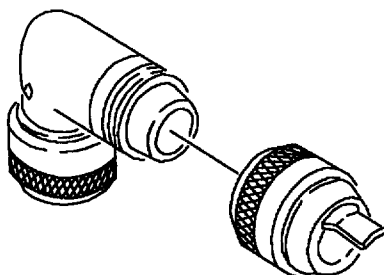
17. REASSEMBLY OF J1317 EMI ADAPTER.

- a. Fit both pieces of adapter together on rear of rectangular connector. See Figure 24.
- b. Insert 4 screws in EMI adapter and tighten.
- c. Install adapter/backshell and ferrule/cable lamp per paragraph 13.



F/A18-WRM-000-(1037-1)01-SCAN

Figure 24. Reassembly of J1317 EMI Adapter



F/A-18-WRM-(351-1)01-SCAN

Reference Designation to Backshell Data Index for G7056 and G7925 Backshells













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12P-G005	G7056-11-NF	169 00	CM389L-11
12P-G007	G7056-9-NF	169 00	CM389L-9
12P-R006	G7056-11-NF	169 00	CM389L-11
13P-G008	G7056-11-NF	169 00	CM389L-11
18P-S003	G7056-11-NF	169 00	CM389L-11
 18P-T014	G7056-9-NF	169 00	CM389L-9
 19P-S013	G7056-11-NF	169 00	CM389L-11
19P-T012	G7056-9-NF	169 00	CM389L-9
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 20P-K006	G7056-15-NF	169 00	CM389L-15
 20P-L013	G7056-17-NF	169 00	CM389L-17
 20P-L014	G7056-9-NF	169 00	CM389L-9
22P-E003	G7056-11-NF	169 00	CM389L-11
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22P-G073	G7056-11-NF	169 00	CM389L-11
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 22P-G172	G7056-11-NF	169 00	CM389L-11
22P-M009	G7056-9-NF	169 00	CM389L-9
24P-P011	G7056-17-NF	169 00	CM389L-17
 3P-P095	G7056-9-NF	169 00	CM389L-9
 3P-R096	G7056-9-NF	169 00	CM389L-9
34P-G003	G7056-13-NF	169 00	CM389L-13
 34P-P004	G7056-11-NF	169 00	CM389L-11
4P-R023	G7056-17-NF	169 00	CM389L-17
5J-R135	G7056-17-NF	170 00	BT-J-143
5P-B007	G7056-13-NF	169 00	CM389L-13
5P-P072	G7056-11-NF	169 00	CM389L-11
5P-P145	G7056-13-NF	169 00	CM389L-13
5P-P151	G7056-11-NF	169 00	CM389L-11
 5P-P152	G7056-11-NF	169 00	CM389L-11

Figure 25. G7056 and G7925 EMI Backshells (Sheet 1)

Reference Designation to Backshell Data Index for G7056 and G7925 Backshells (Continued)












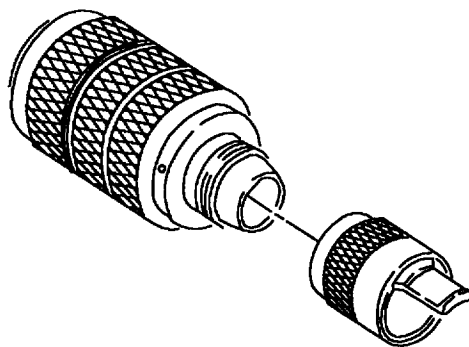
REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
5P-R070	G7056-11-NF	169 00	CM389L-11
5P-R144	G7056-13-NF	169 00	CM389L-13
52J-J156	G7056-9-NF	172 00	CM389L-9
 52J-L154	G7056-11-NF	172 00	CM389L-11
52J-U150	G7056-17-NF	172 00	CM389L-17
52J-V151	G7056-17-NF	172 00	CM389L-17
52P-B021	G7056-13-NF	169 00	CM389L-13
 52P-E154	G7056-11-NF	169 00	CM389L-11
52P-G022	G7056-19-NF	169 00	CM389L-19
52P-G051	G7056-21-NF	169 00	CM389L-21
52P-L050	G7056-11-NF	169 00	CM389L-11
52P-P110	G7056-25-NF	169 00	CM389L-25
 52P-P125	G7925-15	168 00	CM389T-1SA
 52P-P125	G7925-15	190 00	CM389L-15
 52P-R124	G7925-11	190 00	CM389L-11
 52P-R124	G7925-11	168 00	CM389T-11A
61J-J033	G7056-15-NF	172 00	CM389L-15
 61J-Y206	G7056-11-NF	172 00	CM389L-11
61P-P014A	G7056-23-NF	169 00	CM389L-23
61P-P014B	G7056-11-NF	169 00	CM389L-11
61P-P014C	G7056-11-NF	169 00	CM389L-11
61P-R016A	G7056-23-NF	169 00	CM389L-23
61P-R016B	G7056-11-NF	169 00	CM389L-11
61P-R016C	G7056-11-NF	169 00	CM389L-11
61P-Y205	G7056-11-NF	171 00	CM389S-10
7J-U042	G7056-9-NF	172 00	CM389L-9
7J-V043	G7056-9-NF	172 00	CM389L-9
7P-G026	G7056-9-NF	169 00	CM389L-9
7P-S048	G7056-9-NF	169 00	CM389L-9
76P-B003	G7056-11-NF	169 00	CM389L-11
76P-B023A	G7056-11-NF	169 00	CM389L-11
76P-H009D	G7056-15-NF	169 00	CM389L-15
 79P-L023	G7056-13-NF	169 00	CM389L-13
 8P-L080	G7056-11-NF	169 00	CM389L-11
 8P-L080B	G7056-11-NF	169 00	CM389L-11
80P-H001A	G7056-21-NF	200 00	CM389L-21
80P-J002A	G7056-21-NF	200 00	CM389L-21
80P-J003A	G7056-21-NF	200 00	CM389L-21
80P-J003B	G7056-21-NF	200 00	CM389L-21
80P-K019A	G7056-21-NF	200 00	CM389L-21
80P-K023	G7056-13-NF	169 00	CM389L-13
 80P-L017A	G7056-21-NF	200 00	CM389L-21
82P-F001B	G7056-21-NF	169 00	CM389L-19
84P-F001C	G7056-19-NF	169 00	CM389L-19
84P-F001E	G7056-19-NF	169 00	CM389L-19
84P-F001K	G7056-19-NF	169 00	CM389L-19
84P-F001M	G7056-19-NF	169 00	CM389L-19

Figure 25. G7056 and G7925 EMI Backshells (Sheet 2)

Reference Designation to Backshell Data Index for G7056 and G7925 Backshells (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
84P-F002C	G7056-19-NF	169 00	CM389L-19
84P-F002E	G7056-19-NF	169 00	CM389L-19
84P-F002K	G7056-19-NF	169 00	CM389L-19
84P-F002M	G7056-19-NF	169 00	CM389L-19
84P-G035A	G7056-11-NF	169 00	CM389L-11
84P-G035B	G7056-11-NF	169 00	CM389L-11
84P-G036	G7056-9-NF	169 00	CM389L-9
84P-P053	G7056-25-NF	169 00	CM389L-25
84P-P067	G7056-15-NF	169 00	CM389L-15
84P-R056	G7056-25-NF	169 00	CM389L-25
84P-R068	G7056-15-NF	169 00	CM389L-15
6 84P-S017A	G7056-13-NF	169 00	CM389L-13
26 84P-S017B	G7056-13-NF	169 00	CM389L-13
6 84P-T018A	G7056-13-NF	169 00	CM389L-13
26 84P-T018B	G7056-13-NF	169 00	CM389L-13
84P-U019A	G7056-13-NF	169 00	CM389L-13
84P-U019B	G7056-13-NF	169 00	CM389L-13
84P-V020A	G7056-13-NF	169 00	CM389L-13
84P-V020B	G7056-13-NF	169 00	CM389L-13
85P-G003A	G7056-15-NF	169 00	CM389L-15
1 161353 THRU 161761.			
2 161924 THRU 163175.			
3 162889 AND UP.			
4 161522 THRU 163175.			
5 161522 AND UP.			
6 161353 THRU 161719.			
7 161353 THRU 161519 AFTER F18 AFC 26.			
8 161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 74.			
9 F/A-18A 161741 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 54.			
10 161945 AND UP.			
11 162826 AND UP.			
12 161745 AND UP.			
13 F/A-18A.			
14 F/A-18B.			
15 163092 AND UP.			
16 F/A-18A 161353 THRU 163144 AND F/A-18B.			
17 161353 THRU 161761, AND 161924.			
18 161360 AND UP; ALSO 161353 THRU 161359 AFTER F18 AFC 19.			
19 161353 THRU 161359 BEFORE F18 AFC 19.			

Figure 25. G7056 and G7925 EMI Backshells (Sheet 3)



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Reference Designation to Backshell Data Index for G7057 Backshells










REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
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10P-G017	G7057-9-1NF	169 00	CM389L-9
12J-G029	G7057-9-1NF	172 00	CM389L-9
 12J-G060	G7057-9-1NF	172 00	CM389L-9
 12J-G061	G7057-9-1NF	172 00	CM389L-9
12P-G029	G7057-9-1NF	169 00	CM389L-9
 12P-G060	G7057-9-1NF	169 00	CM389L-9
 12P-G061	G7057-9-1NF	169 00	CM389L-9
13P-P006	G7057-9-1NF	169 00	CM389L-9
13P-R005	G7057-9-1NF	169 00	CM389L-9
 19J-S013	G7057-11-1NF	170 00	BT-J-132
 19P-S013	G7057-11-1NF	169 00	CM389L-11
19P-T009	G7057-9-1NF	169 00	CM389L-9
20P-J003	G7057-11-1NF	169 00	CM389L-11
22P-E007	G7057-9-1NF	169 00	CM389L-9
22P-E010	G7057-9-1NF	169 00	CM389L-9
22P-M008	G7057-9-1NF	169 00	CM389L-9
3J-M028	G7057-11-1NF	170 00	BT-J-132
3J-N033	G7057-11-1NF	170 00	BT-J-132
 3P-R096	G7057-9-1NF	169 00	CM389L-9
5P-B006	G7057-11-1NF	169 00	CM389L-11
 5P-P152	G7057-11-1NF	169 00	CM389L-11
52J-L050	G7057-11-1NF	172 00	CM389L-11
52J-P157	G7057-11-1NF	172 00	CM389L-11
52J-R158	G7057-11-1NF	172 00	CM389L-11
52J-U152	G7057-13-NF	172 00	CM389L-13
52J-V153	G7057-13-NF	172 00	CM389L-13
52P-P035	G7057-13-NF	169 00	CM389L-13
52P-P064A	G7057-13-NF	169 00	CM389L-13
52P-P064B	G7057-23-NF	169 00	CM389L-23

Figure 26. G7057 EMI Backshell (Sheet 1)

Reference Designation to Backshell Data Index for G7057 Backshells (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
52P-P111	G7057-23-NF	169 00	CM389L-23
52P-P117	G7057-17-NF	169 00	CM389L-17
52P-P123	G7057-15NF	169 00	CM389L-15
52P-R036	G7057-13-NF	169 00	CM389L-13
52P-R066A	G7057-13-NF	169 00	CM389L-13
52P-R066B	G7057-23-NF	169 00	CM389L-23
52P-R113	G7057-25-NF	169 00	CM389L-25
52P-R114	G7057-11-1NF	169 00	CM389L-11
52P-R116	G7057-21-NF	169 00	CM389L-21
52P-U150	G7057-17-NF	169 00	CM389L-17
52P-U152	G7057-13-NF	169 00	CM389L-13
52P-V151	G7057-17-NF	169 00	CM389L-17
52P-V153	G7057-13-NF	169 00	CM389L-13
13 61J-F034	G7057-15-NF	172 00	CM389L-11
61J-U045	G7057-11-1NF	170 00	BT-J-132
61J-V046	G7057-11-1NF	170 00	BT-J-132
61J-W024	G7057-25-NF	172 00	CM389L-25
61J-W093	G7057-23-NF	172 00	CM389L-23
61J-W112	G7057-23-NF	172 00	CM389L-23
61J-W210	G7057-11-1NF	172 00	CM389L-11
61J-W239	G7057-9-1NF	172 00	CM389L-9
14 61J-Y200A	G7057-13-NF	172 00	CM389L-13
14 61J-Y200B	G7057-23-NF	172 00	CM389L-23
10 61P-F034	G7057-15NF	169 00	CM389L-15
61P-G165	G7057-11-1NF	169 00	CM389L-11
61P-U011A	G7057-13-NF	169 00	CM389L-13
61P-U011B	G7057-13-NF	169 00	CM389L-13
61P-V019A	G7057-13-NF	169 00	CM389L-13
61P-V019B	G7057-13-NF	169 00	CM389L-13
61P-W012A	G7057-25-NF	169 00	CM389L-25
61P-W012C	G7057-23-NF	169 00	CM389L-23
61P-W012D	G7057-23-NF	169 00	CM389L-23
61P-W023A	G7057-13-NF	169 00	CM389L-13
61P-W023B	G7057-25-NF	169 00	CM389L-25
61P-W023C	G7057-15NF	169 00	CM389L-15
61P-W097A	G7057-17-NF	169 00	CM389L-17
61P-W212	G7057-19-NF	177 00	CM389L-19
61P-W213	G7057-19-NF	177 00	CM389L-19
61P-W239	G7057-9-1NF	169 00	CM389L-9
61P-W258	G7057-9-1NF	169 00	CM389L-15
61P-Y100A	G7057-17NF	169 00	CM389L-17
61P-Y112	G7057-23-NF	169 00	CM389L-23
61P-Y287	G7057-17-NF	169 00	CM389L-17
61P-Z105A	G7057-17-NF	169 00	CM389L-17
61P-Z167	G7057-17-NF	169 00	CM389L-17
7P-S036B	G7057-15NF	169 00	CM389L-15
7P-S036C	G7057-15NF	169 00	CM389L-15
7P-S037	G7057-15NF	169 00	CM389L-15

Figure 26. G7057 EMI Backshell (Sheet 2)

Reference Designation to Backshell Data Index for G7057 Backshells (Continued)






















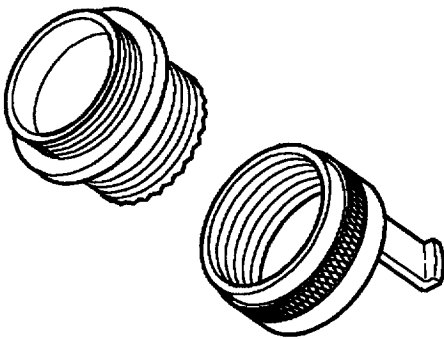
REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
7P-T038	G7057-15NF	169 00	CM389L-15
75J-N001	G7057-11-1NF	172 00	CM389L-11
76J-J003	G7057-11-1NF	172 00	CM389L-11
 79P-E023	G7057-13-NF	169 00	CM389L-13
79P-J001A	G7057-21-NF	200 00	CM389L-21
79P-J001B	G7057-21-NF	200 00	CM389L-21
 79P-L023	G7057-13-NF	169 00	CM389L-13
 80P-L016A	G7057-21-NF	200 00	CM389L-21
83J-G003	G7057-15-NF	172 00	CM389L-15
 84P-J037	G7057-17-NF	169 00	CM389L-17
 84P-J037	G7057-21-NF	169 00	CM389L-17
 84P-L096	G7057-17-NF	169 00	CM389L-17
 84P-L096	G7057-21-NF	169 00	CM389L-21
84P-P054	G7057-23-NF	169 00	CM389L-23
84P-P059	G7057-17-NF	169 00	CM389L-17
84P-P060	G7057-15NF	169 00	CM389L-15
84P-R057	G7057-23-NF	169 00	CM389L-23
84P-R064	G7057-15NF	169 00	CM389L-15
84P-R065	G7057-15NF	169 00	CM389L-15
84P-U027A	G7057-13-NF	169 00	CM389L-13
84P-U027B	G7057-13-NF	169 00	CM389L-13
84P-V028A	G7057-13-NF	169 00	CM389L-13
84P-V028B	G7057-13-NF	169 00	CM389L-13
 161353 THRU 161944.  161702 AND UP.  161353 THRU 162888.  F/A-18A 161702 THRU 161739.  161522 AND UP.  161353 THRU 161519 BEFORE F18 AFC 27.  161520 AND UP, 161353 THRU 161519 AFTER F18 AFC 27.  F/A-18B 161354 THRU 161360.  F/A-18B 161704 AND UP.  F/A-18B.  161737 AND UP.  161522 AND UP.  F/A-18A.  161353 THRU 161761, AND 161924.			

Figure 26. G7057 EMI Backshell (Sheet 3)

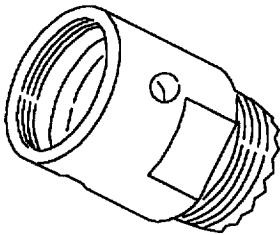


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Reference Designation to Backshell Data Index for G7173 and S2127 EMI Backshells

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
61P-W212	S2127-16-34D	177 00	None
61P-W213	S2127-16-34D	177 00	None
61P-Y247A	G7173-19NF	180 00	None

Figure 27. G7173 and S2127 EMI Backshells

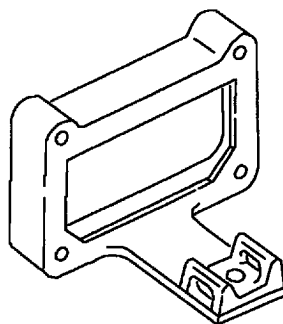


F/A18-WRM-000-(1092-1)01-SCAN 11

Reference Designation to Adapter Data Index for G8682 EMI Adapter

REFERENCE DESIGNATION	ADAPTER	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
5P-Y025	G8682-13NF	169 00	CM389L-13
52P-L050	G8682-11NF	169 00	CM389L-11

Figure 28. G8682 EMI Adapter



F/A18-WRM-000-(1087-1)01-SCAN 14

Reference Designation to Adapter Data Index for J1311F EMI Adapter

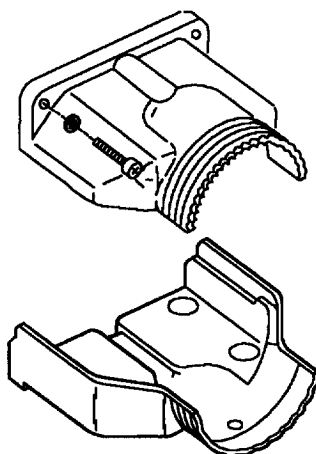
REFERENCE DESIGNATION	ADAPTER	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1 52J-E009A	J1311F	201 00	None
1 52J-E009B	J1311F	201 00	None
3 52J-E010A	J1311F	201 00	None
3 52J-E010B	J1311F	201 00	None
3 52J-F002A	J1311F	201 00	None
3 52J-F002B	J1311F	201 00	None
3 52J-F004A	J1311F	201 00	None
3 52J-F004B	J1311F	201 00	None
3 52J-F005A	J1311F	201 00	None
3 52J-F005B	J1311F	201 00	None
2 52J-P009A	J1311F	201 00	None
2 52J-P009B	J1311F	201 00	None
4 52J-P010A	J1311F	201 00	None
4 52J-P010B	J1311F	201 00	None
4 52J-R002A	J1311F	201 00	None
4 52J-R002B	J1311F	201 00	None
4 52J-R004A	J1311F	201 00	None
4 52J-R004B	J1311F	201 00	None
4 52J-R005A	J1311F	201 00	None
4 52J-R005B	J1311F	201 00	None
5 52P-E009A	J1311F	201 00	None
5 52P-E009B	J1311F	201 00	None
52P-E010A	J1311F	201 00	None
52P-E010B	J1311F	201 00	None
52P-F002A	J1311F	201 00	None
52P-F002B	J1311F	201 00	None
52P-F004A	J1311F	201 00	None
52P-F004B	J1311F	201 00	None
52P-F005A	J1311F	201 00	None
52P-F005B	J1311F	201 00	None
1 F/A-18A 161702 AND UP.			

Figure 29. J1311F EMI Adapter (Sheet 1)

Reference Designation to Adapter Data Index for J1311F EMI Adapter (Continued)

REFERENCE DESIGNATION	ADAPTER	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
2 F/A-18B 161704 AND UP.			
3 F/A-18A			
4 F/A-18B			
5 F/A-18A 161702 THRU 163175.			

Figure 29. J1311F EMI Adapter (Sheet 2)



F/A-18-WRM-(351-3)01-SCAN

Reference Designation to Backshell Data Index for J1317 EMI Adapter






REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
79P-J001A	J1317	200 00	None
79P-J001B	J1317	200 00	None
80P-H001A	J1317	200 00	None
80P-J002A	J1317	200 00	None
80P-J003A	J1317	200 00	None
80P-J003B	J1317	200 00	None
 80P-K019A	J1317	200 00	None
 80P-L016A	J1317	200 00	None
 80P-L016B	J1317	200 00	None
 80P-L017A	J1317	200 00	None
 F/A-18B			

Figure 30. J1317 EMI Adapter

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****FABRICATION OF SHIELDED HARNESS TERMINATED WITH ELECTROMAGNETIC INTERFERENCE (EMI) AND TAPE WRAPPED THERMAL BARRIER BACKSHELLS**

Reference Material

None

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CM Adapter Tools	4
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
Alphabetical Index (Continued)


Subject	Page No.
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Tie Wrap Tool, Figure 6	8
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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.	Reference Designation	Figure No.
1P-P001	25	4P-R016	26
1P-R002	25	4P-R016 (Adapter)	27
22J-S030	26	4P-R022	26
22P-P030	25	4P-R022 (Adapter)	27
22P-S024	26	5J-P111	26
 122P-S025	25	5J-R112	25
22P-S027	26	5J-P071	26
22P-T022	25	5P-P071 (Adapter)	27
24P-S009	25	5P-P113	25
24P-T008	26	5P-R114	25
24P-T010	25	52P-J105	25
3P-P006	25	52J-P125	25
3P-P010	25	52J-R104	25
3P-P055	26	52J-R124	25
3P-P064	25	52J-R124 (Adapter)	27
3P-R007	25	52J-T108	25
3P-R011	25	52P-P103	25
3P-R056	26	52P-P105	25
3P-R065	25	52P-P119	26
4P-P009	26	52P-R102	25
4P-P009 (Adapter)	25	52P-R104	25
4P-P010	25	52P-R120	26
4P-P010 (Adapter)	26	52P-S112	26
4P-P021	26		
4P-P021 (Adapter)	27		
4P-R015	26		
4P-R015 (Adapter)	27		

LEGEND 161702 AND UP

1. DESCRIPTION.

2. This work package explains procedures for installing thermal barrier protection boots, that are terminated with electromagnetic interference (EMI) backshells.
3. The G7056 and G7925 EMI backshells are right angle backshells with strain relief provisions.
4. The G7057 and G7924 EMI backshells are straight backshells with strain relief provisions.
5. The S2160 and S2163 adapters are metal adapters which are used to mate connectors with accessory hardware of a different size. S2160 mates MIL-C-38999 series 1 and 2, S2163 mates series 3 and 4.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire And Connector

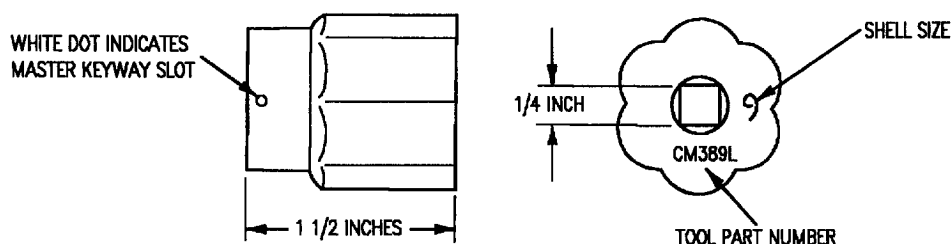
Materials Required

Specification or Part Number	Nomenclature
See Table 1	Teflon Barrier Tape
See Table 2	Silicone Rubber Tape
See Table 3	Wire Mesh Tape
See Table 4	Plastic Tie Down Strap
See Table 5	Hot Spotz Tape
See Table 6	Permacel Tape
SN60WRMAP2-0-040	Solder
MIL-T-43435TYPE-4 SIZE-3FINISH-D	Tape, Lacing
SR98	Silicone Varnish

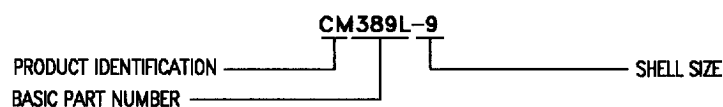
6. PROCEDURE

7. CM ADAPTER TOOLS

a. CM adapter tool is shown in figure 1. Select tool part number to shell size from tool data in reference designation to backshell data index for specific cable clamp.



MIL-C-38999 SERIES 1



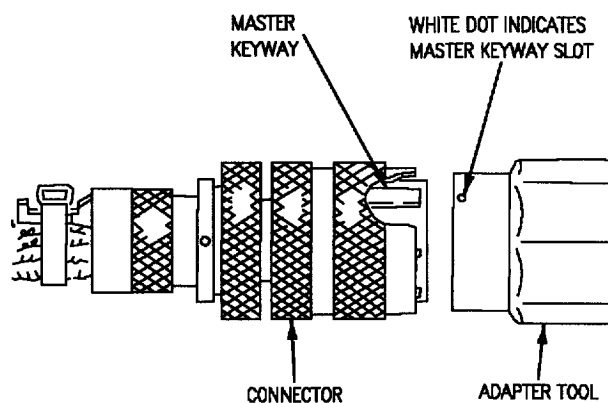
F/A-18-WRM-(500-18)02-CAT1

Figure 1. CM Adapter Tool Part Numbering System



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

b. Mate adapter tool to connector. See figure 2.



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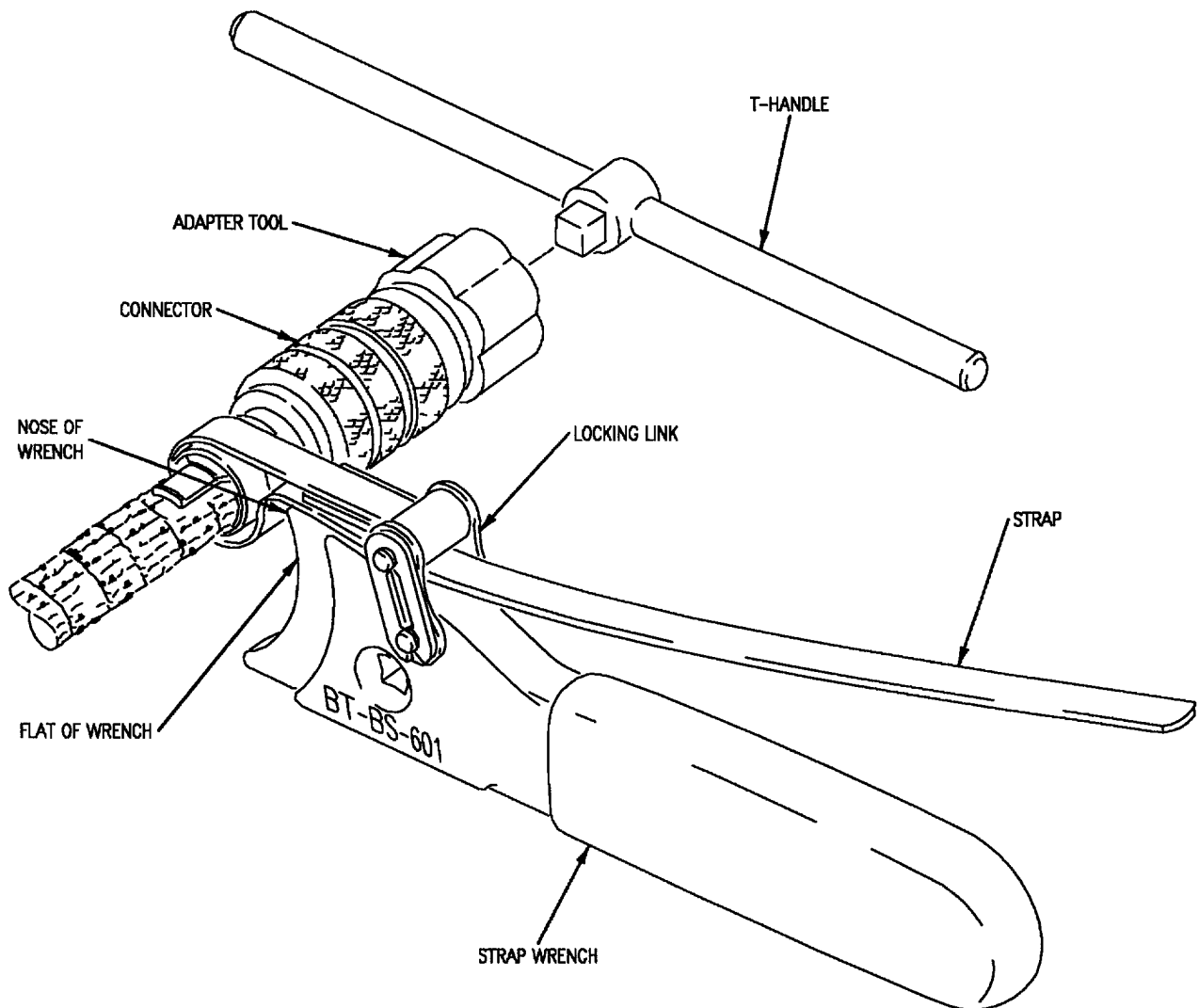
Figure 2. Adapter Tool Mating

8. STRAP WRENCH

NOTE

a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rests on nose of wrench. See figure 3.

T-Handle can be used for additional gripping force to adapter if required.

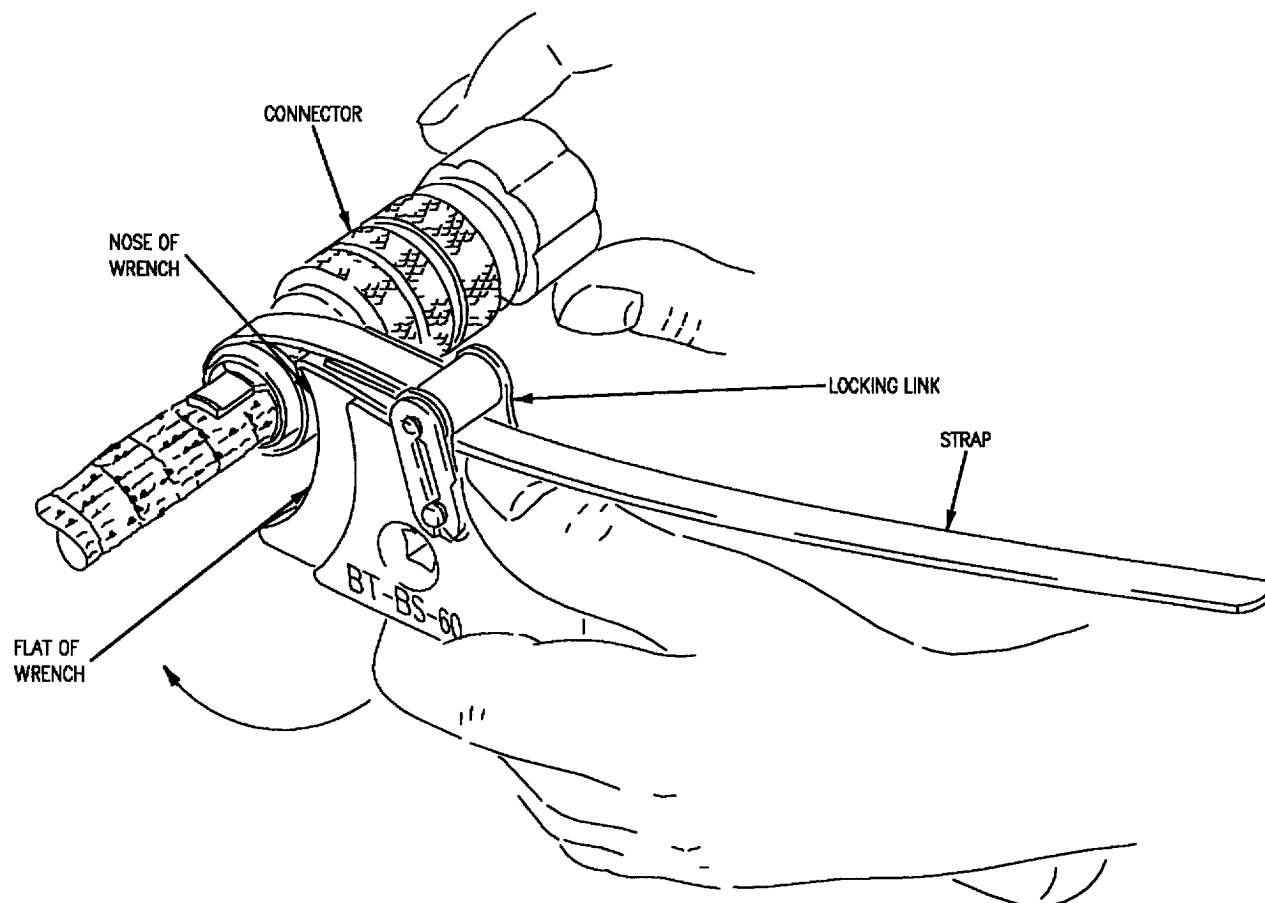


F/A18-WRM-000-(281-1)01-SCAN 40

Figure 3. Strap Wrench Setup and Adjustment

b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector. The clamp and strap are tucked beneath the nose

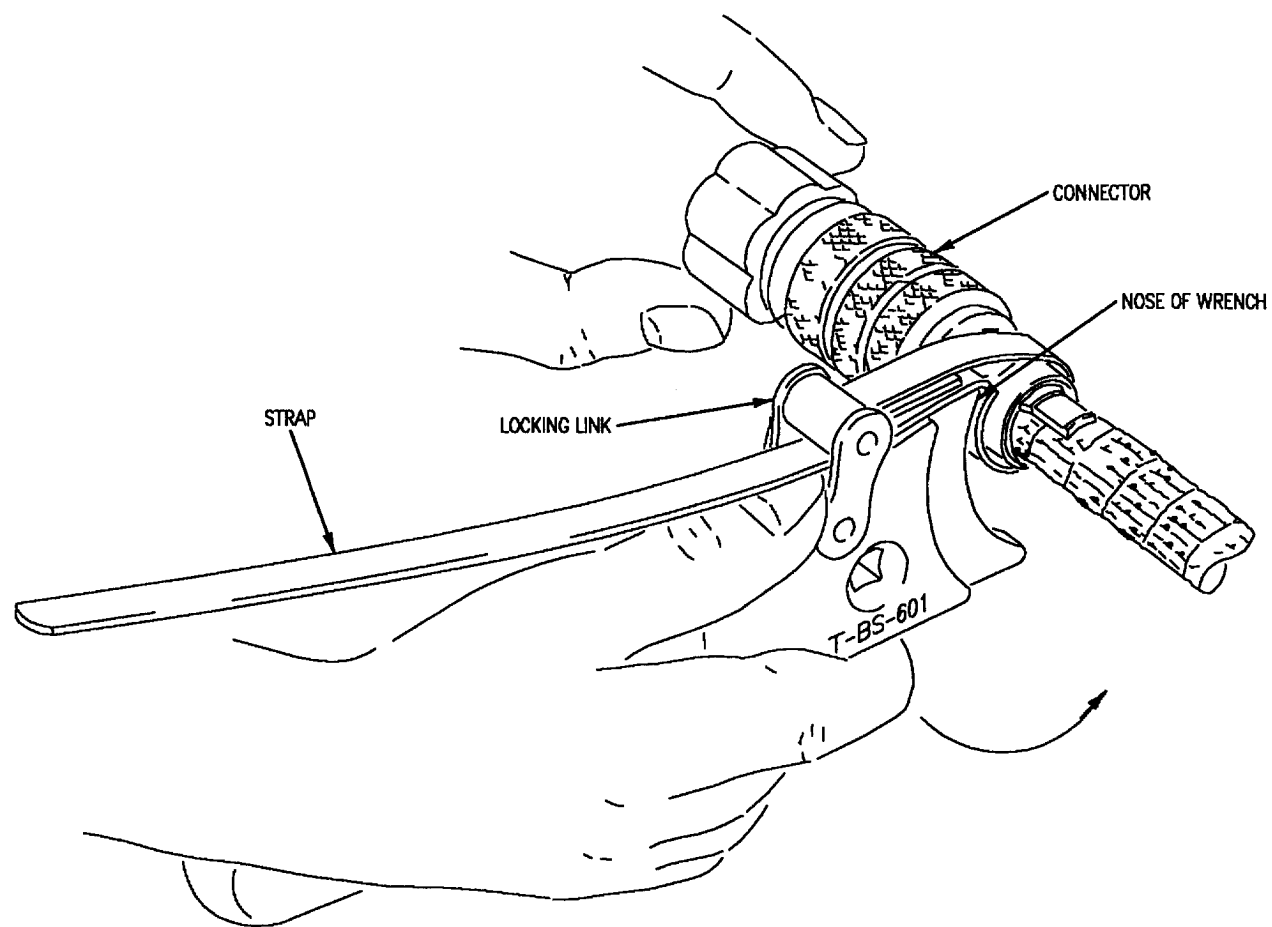
of the wrench and against the flat of the wrench. See figure 4.



18AE-WRM-000-(281-2)01-SCAN 34

Figure 4. Tightening Position of Wrench

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector. See figure 5.

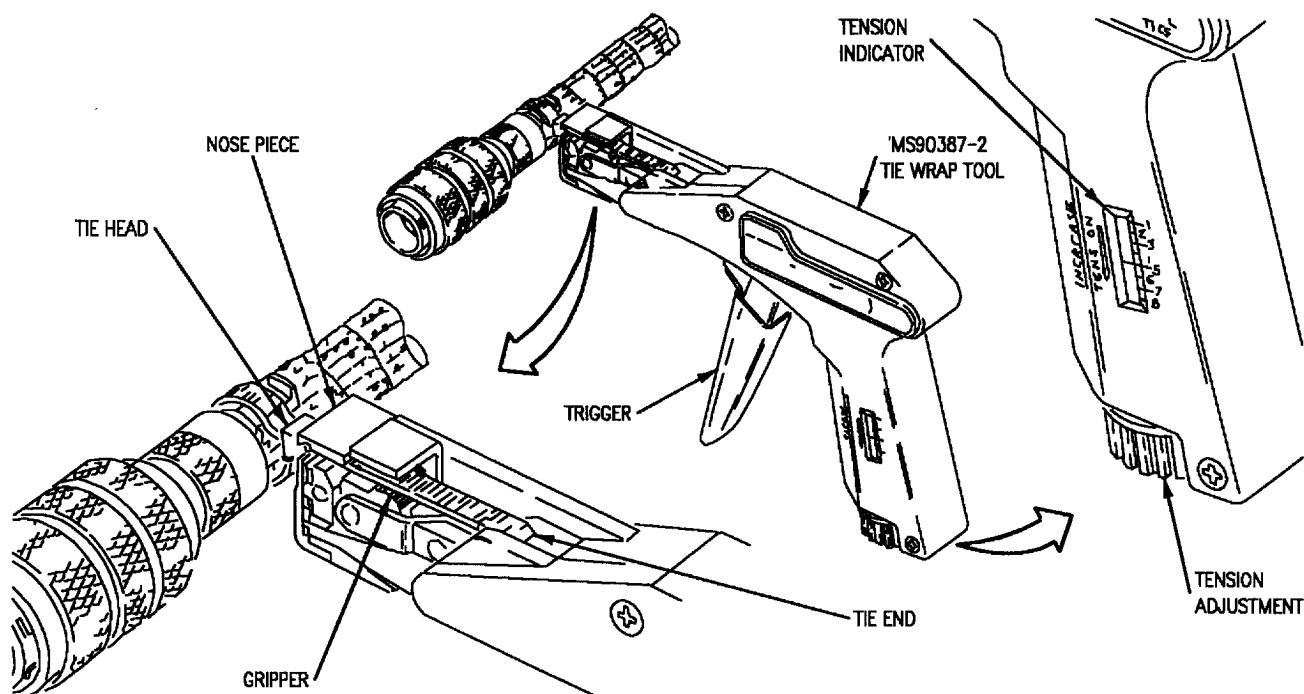


F/A18-WRM-000-(281-3)01-SCAN 34

Figure 5. Loosening Position of Wrench

9. TIE WRAP TOOL

- a. Adjust tool as specified in figure 6.
- b. Install cable tie around the cable/harness assembly.
- c. Thread tie end through slot in tie head manually pull tight around harness assembly.
- d. Insert tie end through nose piece of tool and pull against tie head.
- e. Center cable tie in tool slot and over gripper.
- f. Squeeze trigger until cable tie is cut off flush with tie head.
- g. Release trigger and discard cut off end of cable tie.

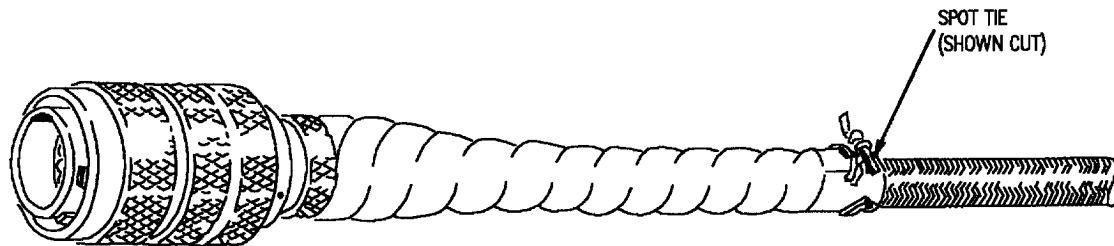


F/A18-WRM-000-(282-11)01-SCAN 28

Figure 6. Tie Wrap Tool

10. DISASSEMBLY PROCEDURE

a. Remove spot tie from permacel tape boot. See figure 7.



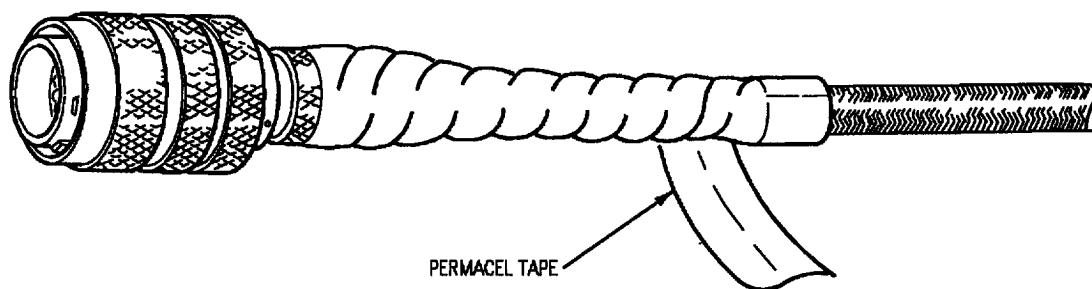
F/A18-WRM-000(283-1)01-SCAN 13

Figure 7. Spot Tie Removal

b. Unwrap or cut permacel tape and remove from the boot area. See figure 8.



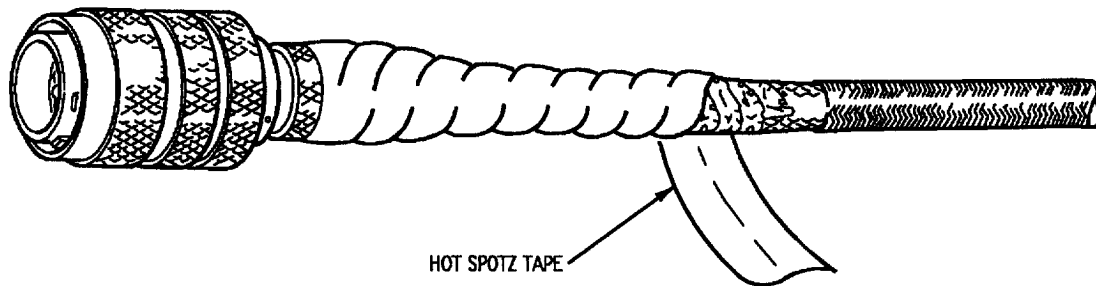
When cutting boot material with a sharp tool, extreme care must be taken not to nick or scrape the wire insulation beneath the cut.



F/A18-WRM-000-(283-12)01-CAT1

Figure 8. Permactel Tape Boot Removal

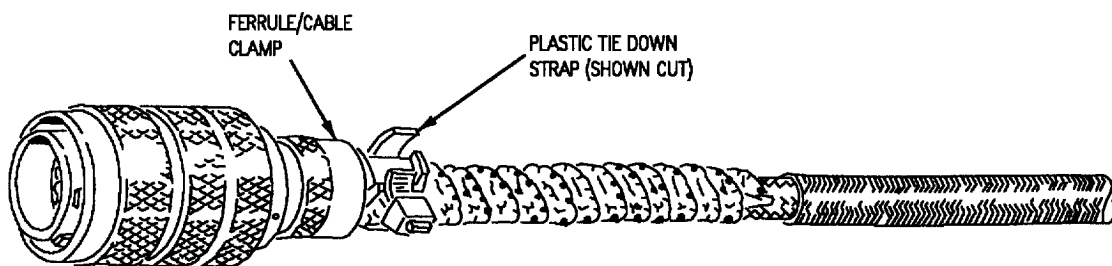
c. Unwrap or cut hot spotz tape and remove from boot area. See figure 9.



F/A18-WRM-000-(283-13)01-CATI

Figure 9. Hot Spotz Tape Boot Removal

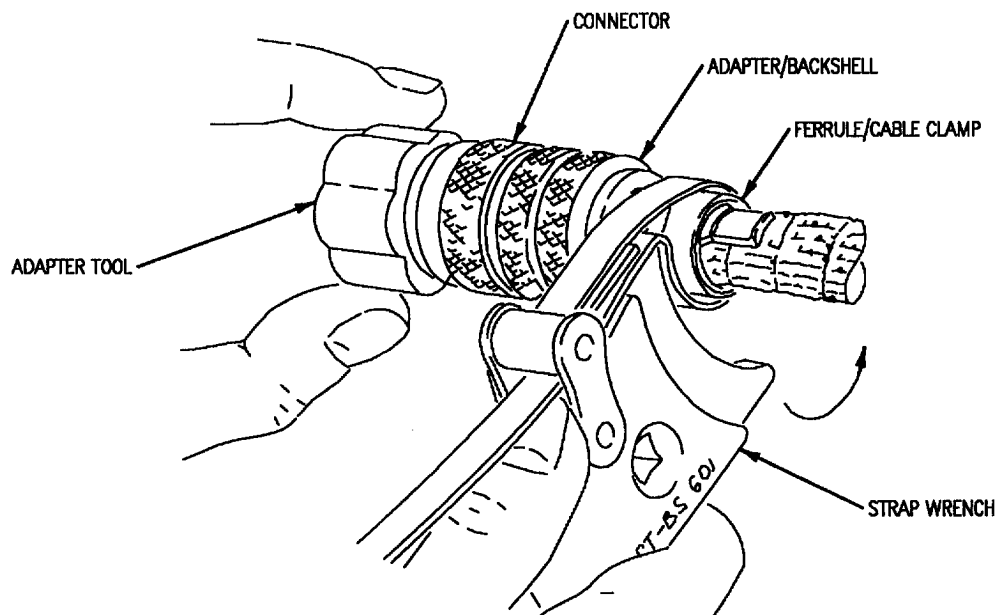
d. Cut and remove plastic tie down strap from ferrule/cable clamp. See figure 10.



F/A18-WRM-000-(283-3)01-SCAN 13

Figure 10. Plastic Tie Down Strap Removal

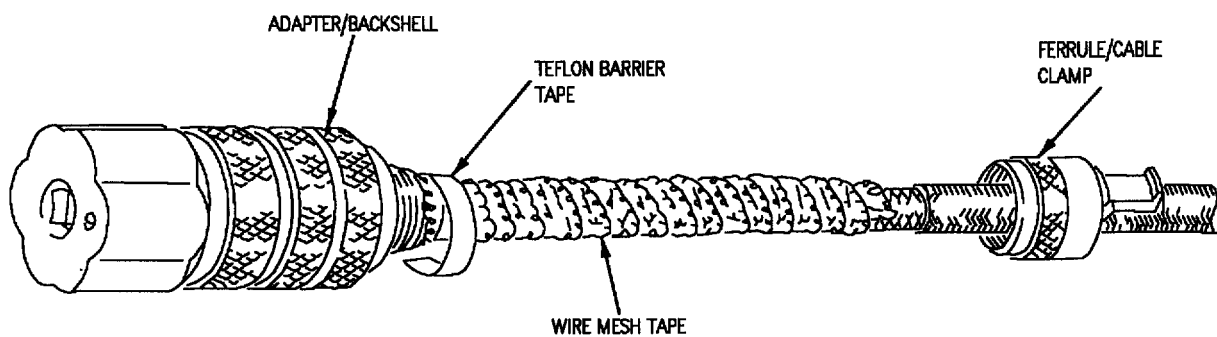
e. Remove ferrule/cable clamp from adapter/back-shell. See figure 11.



F/A18-WRM-000-(281-4)01-SCAN 24

Figure 11. Ferrule/Cable Clamp Removal

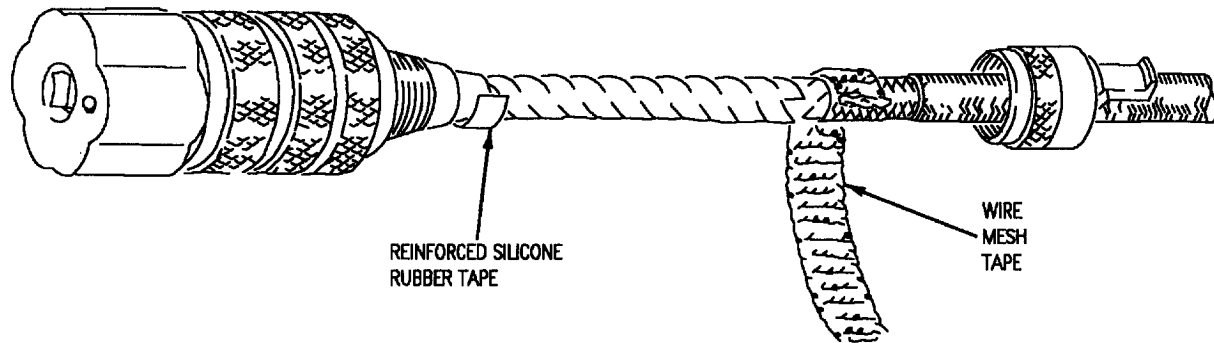
f. Remove teflon barrier tape. See figure 12.



F/A18-WRM-000-(283-4)01-SCAN

Figure 12. Teflon Barrier Tape Removal at Backshell

g. Unwrap wire mesh tape and reinforced silicone rubber tape from boot area. See figure 13.

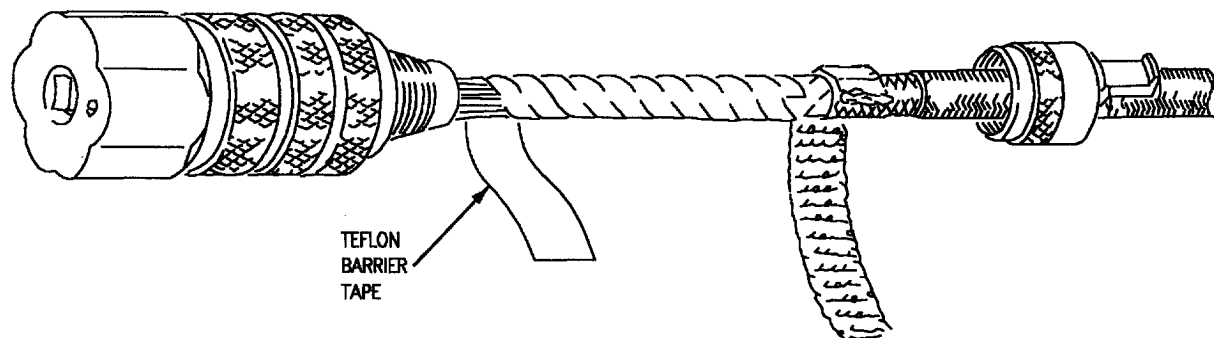


F/A18-WRM-000-(283-5)01-SCAN 17

Figure 13. Wire Mesh Tape Removal

h. If removal of wire mesh from the harness/cable assembly is required, unsolder from wire braid.

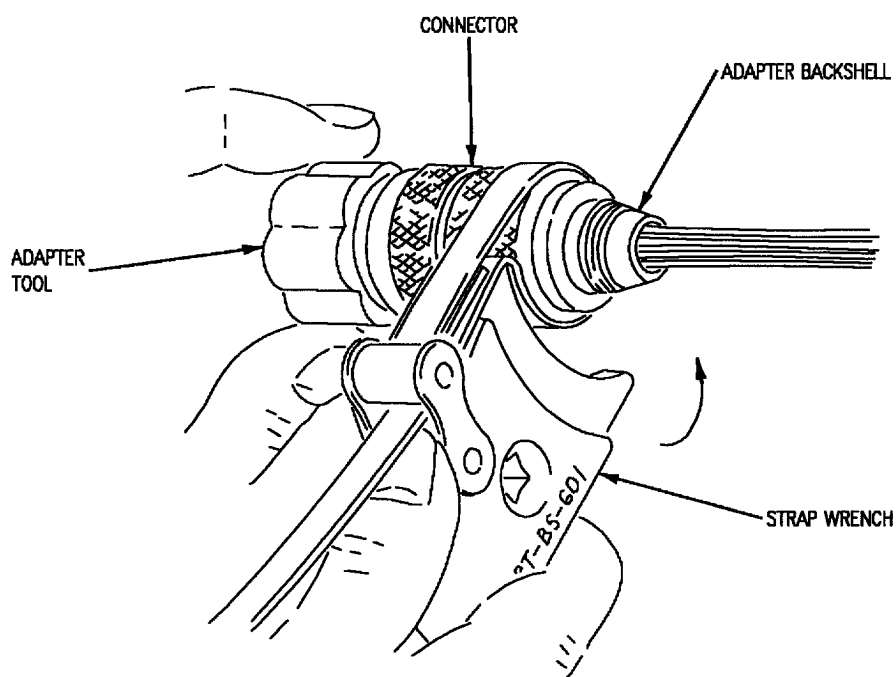
i. Unwrap teflon barrier tape. See figure 14.



F/A18-WRM-000-(283-6)01-SCAN 18

Figure 14. Teflon Barrier Tape Removal

j. Remove adapter/backshell. See figure 15.

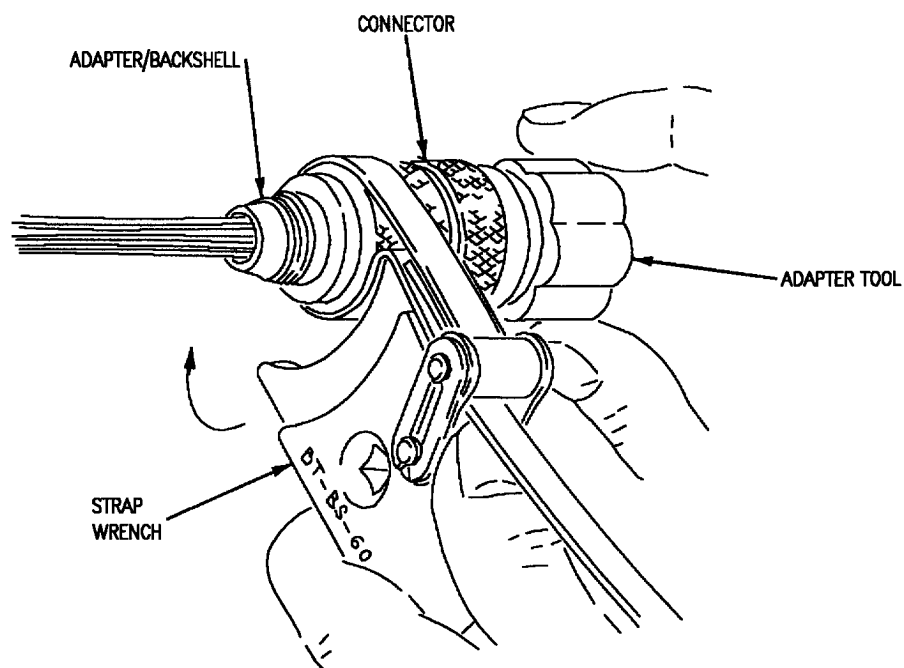


F/A18-WRM-000-(281-5)01-SCAN 25

Figure 15. Adapter/Backshell Removal

11. REASSEMBLY PROCEDURE

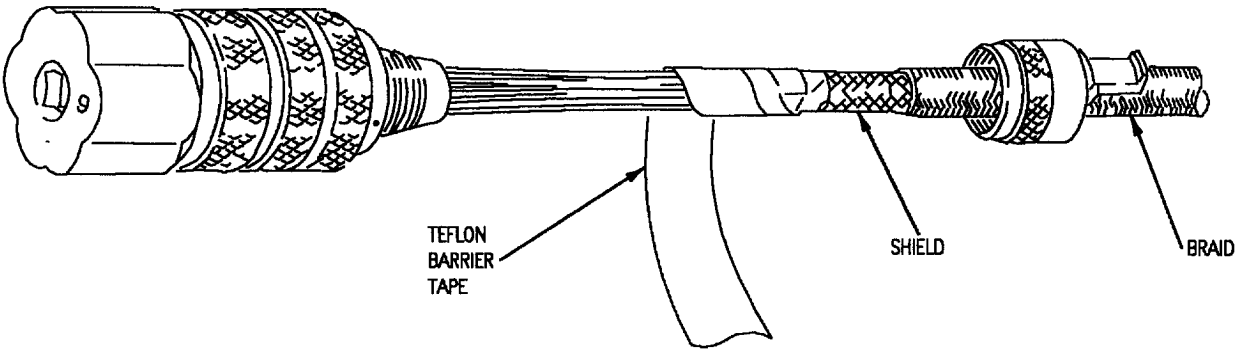
- a. Slide adapter/backshell onto connector and tighten. See figure 16.



F/A18-WRM-000-(281-6)01-SCAN 25

Figure 16. Installation of Adapter Backshell

b. Spiral wrap exposed wire with teflon barrier tape. See figure 17.



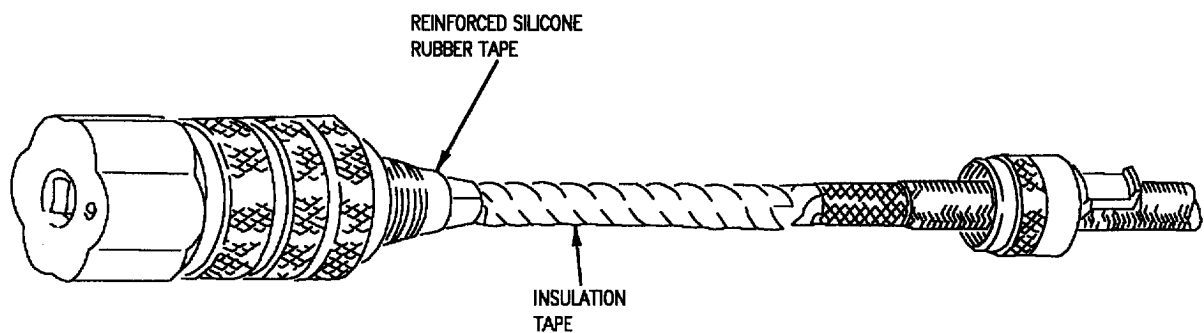
F/A18-WRM-000-(283-7)01-SCAN 17

Figure 17. Spiral Wrapping Teflon Barrier Tape

Table 1. Teflon Barrier Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-23594,TYPE 2,0.500IN.	81349	1/2
TAPE COMES IN ROLLS COLOR - WHITE OR BROWN TEMPERATURE RANGE; -130° TO +500°F		

c. Build up a tapered area of reinforced silicone rubber tape behind the adapter/backshell. See figure 18.



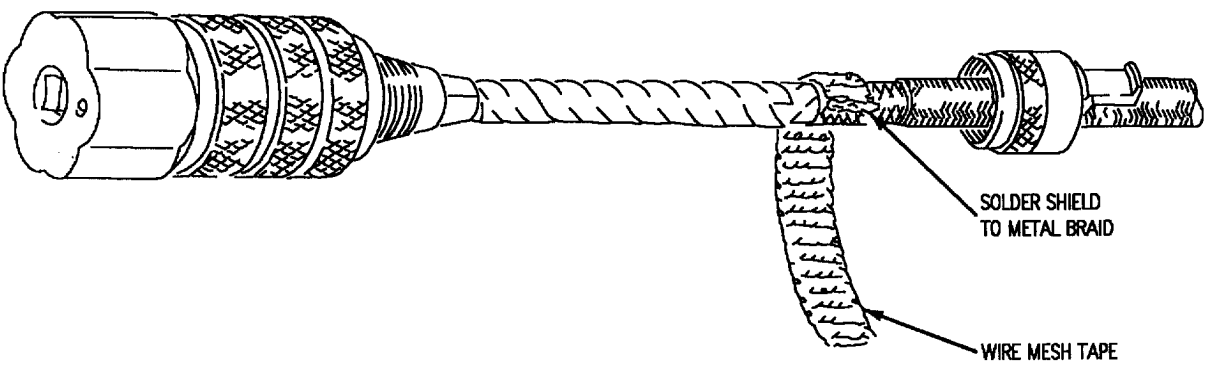
F/A18-WRM-000-(283-8)01-SCAN 13

Figure 18. Reinforced Silicone Rubber Tape Buildup at Backshell

Table 2. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-80	07099	1/2
S-5025	07099	1/2
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES. TEMPERATURE RANGE: -65° TO +300°F		

d. If necessary, solder wire mesh tape to metal braid. See figure 19.



F/A18-WRM-000-(283-9)01-SCAN 17

Figure 19. Soldering Wire Mesh Tape to Shield

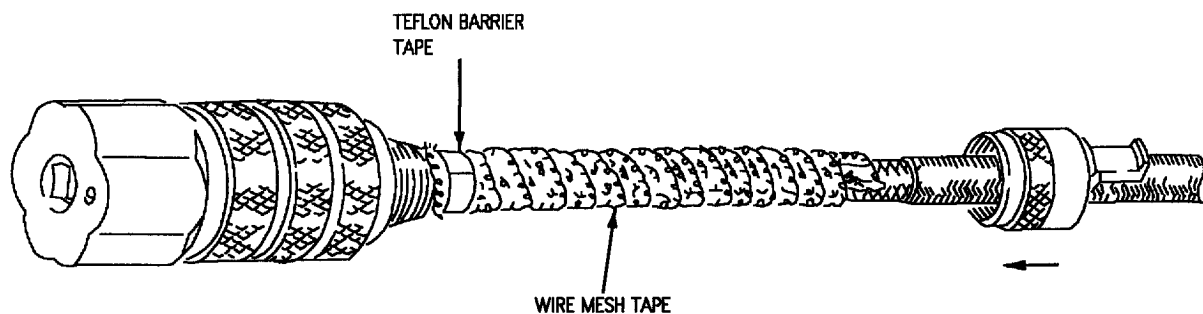
Table 3. Wire Mesh Tape

PART NUMBER	CAGE	WIDTH (INCH) NOMINAL	THICKNESS (INCH) NOMINAL	WIRE DIAMETER (INCH)
SC61298	OBKF2	1.000	1/64	.7/128 (35 GAGE)
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES. TEMPERATURE RANGE: -65° TO +300°F				

NOTE

Wrap wire mesh tape in same direction as ferrule/clamp screws onto adapter/backshell.

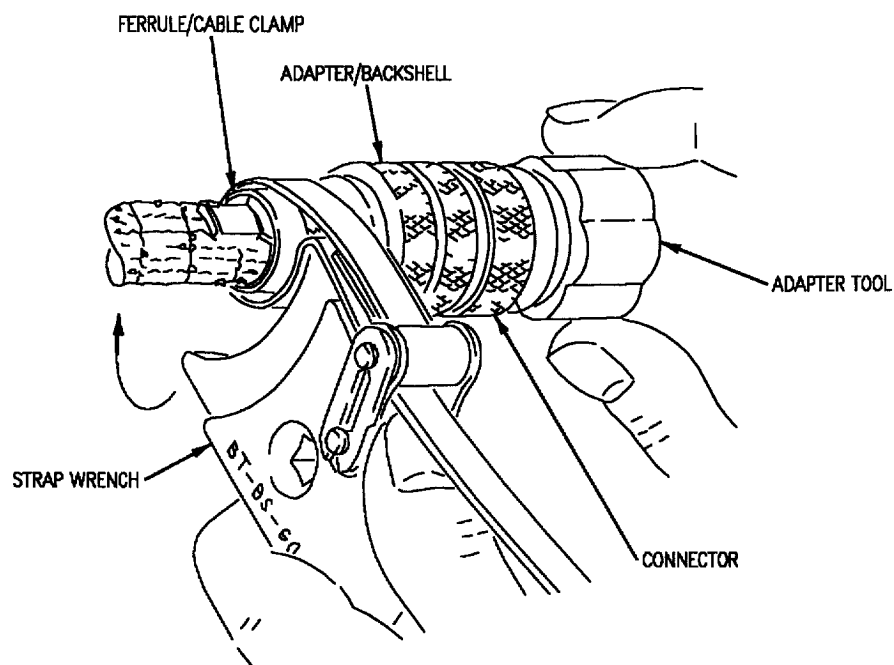
e. Wrap wire mesh tape with a 50 percent overlap and secure in place with teflon barrier tape. See figure 20.



F/A18-WRM-000-(283-10)01-SCAN

Figure 20. Securing Wire Mesh Tape Wrap

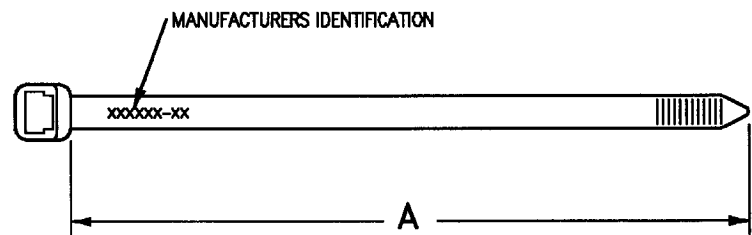
f. Install ferrule/cable clamp and tighten with strap wrench. See figure 21.



F/A18-WRM-000-(281-7)01-SCAN 25

Figure 21. Ferrule/Cable Clamp Installation

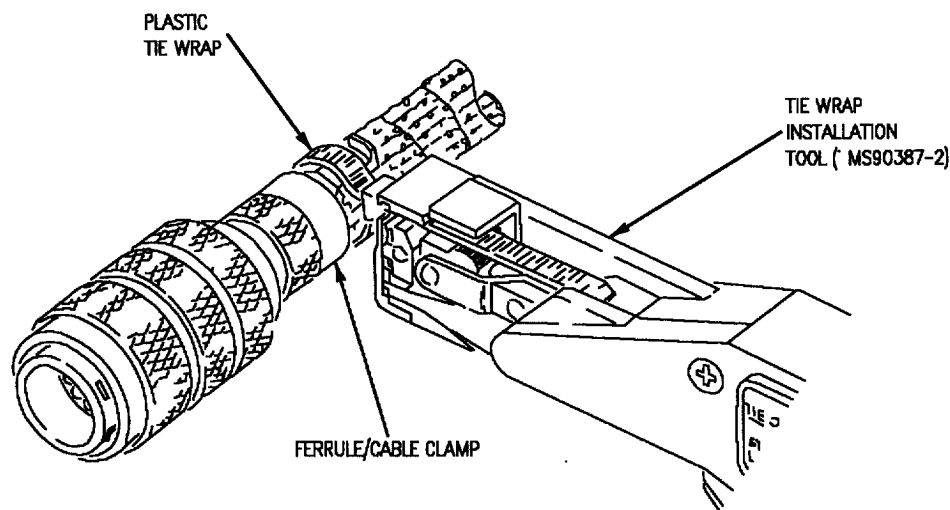
Table 4. Plastic Tie Down Strap



F/A-18-WRM-(510-1)01-CAT1

PART NUMBER	LENGTH A (INCH)	CONNECTOR SHELL SIZE	MS90387-1 TOOL TENSION SETTING	MILITARY SPECIFICATION
PLT-2S-CP30	6-1/32	8 THRU 19	6	MIL-S-23190
PLT4H-C30	12.00	20 THRU 25	8	MIL-S-23190
SST-2H-C30	7-1/2	20 THRU 25	8	MIL-S-23190
TEMPERATURE RANGE: -65° TO +300°F				

g. Install plastic tie wrap with tie wrap installation tool. See figure 22.

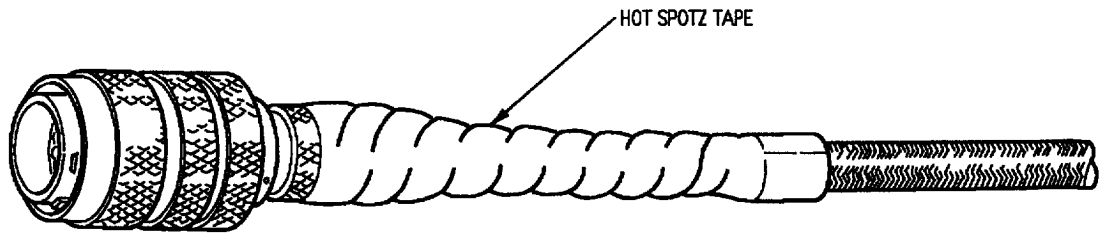


F/A18-WRM-000-(281-8)01-SCAN 21

Figure 22. Securing Ferrule/Cable Clamp

h. Wrap Hot Stopz thermal barrier tape one complete turn around connector backshell, do not cover backshell drain holes. Continue wrapping with a 50% overlap. Wrap back over exposed wiring onto harness

braid about 1/2 inch. Terminate tape by wrapping one full turn around and perpendicular to cable axis. See figure 23.



F/A18-WRM-000-(283-14)01-CAT I

Figure 23. Securing Hot Spotz Tape Boot

Table 5. Hot Spotz Tape

PART NUMBER	CAGE	WIDTH (INCH)
AF100A	62088	1
AF150A	62088	1 1/2
TAPE COMES IN ROLLS COLOR - SILVER TEMPERATURE RANGE; -178° TO +500°F		

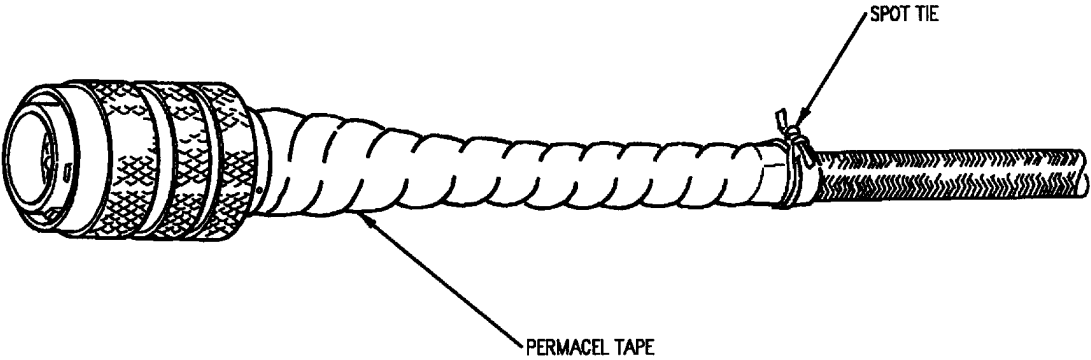
NOTE

Wrap permacel tape in same direction as hot spotz tape was applied.

i. Wrap permacel tape over hot spotz tape beginning with one complete turn around connector backshell, do not cover backshell drain holes. Continue

wrapping with a 50% overlap, ending wrap where hot spotz tape ended. Terminate tape by wrapping one full turn around and perpendicular to cable axis.

j. Secure in place with spot tie lacing tape. After tying tape, apply enough silicone varnish to secure knot and cover the cut ends. See figure 24.

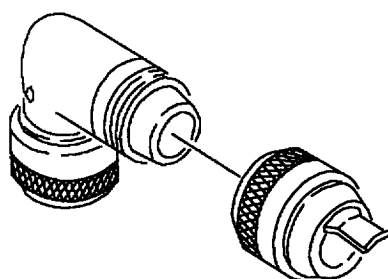


F/A18-WRM-000-(283-15)01-CATI

Figure 24. Securing Permactel Tape Boot

Table 6. Permactel Tape

PART NUMBER	CAGE	WIDTH (INCH)
2650	32132	1
SELF BONDING TAPE COMES IN ROLLS COLOR - RED TEMPERATURE RANGE; -178° TO +500°F		



F/A-18-WRM-(351-1)01-SCAN

Reference Designation to Backshell Data Index

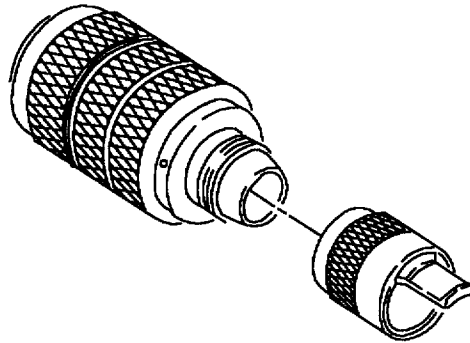
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2 22P-P030	G7925-13	168 00	CM389T-13A
6 22P-S025	G7056-11-NF	169 00	CM389L-11
22P-T022	G7056-9-NF	169 00	CM389L-9
1 24P-S009	G7925-11	190 00	CM389L-11
2 24P-S009	G7925-11	168 00	CM389T-11A
1 24P-T010	G7925-11	190 00	CM389L-11
2 24P-T010	G7925-11	168 00	CM389T-11A
3P-P006	G7056-11-NF	169 00	CM389L-11
3P-P010	G7056-9-NF	169 00	CM389L-9
3P-P064	G7056-9-NF	169 00	CM389L-9
3P-R007	G7056-11-NF	169 00	CM389L-11
7 3P-R011	G7056-9-NF	169 00	CM389L-9
8 3P-R011	G7057-9-1NF	169 00	CM389L-9
3P-R065	G7056-9-NF	169 00	CM389L-9
3 4P-P010	G7925-11	190 00	CM389L-11
4 4P-P010	G7925-13	190 00	CM389L-13
5 4P-P010	G7925-13	168 00	CM389L-13
5J-R112	G7056-9-NF	172 00	CM389L-9
5P-P113	G7056-11-NF	169 00	CM389L-11
5P-R114	G7056-11-NF	169 00	CM389L-11
1 52J-P105	G7925-21	190 00	CM389L-21
2 52J-P105	G7925-21	168 00	CM389L-21
1 52J-P125	G7925-15	190 00	CM389L-15
2 52J-P125	G7925-15	168 00	BT-J-142
1 52J-R104	G7925-21	190 00	CM389L-21
2 52J-R104	G7925-21	168 00	BT-J-150
3 52J-R124	G7925-11	190 00	BT-J-133
4 52J-R124	G7925-13	190 00	BT-J-133
2 52J-R124	G7925-13	168 00	BT-J-133

Figure 25. G7056 and G7925 EMI Backshells (Sheet 1)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1 52J-T108	G7925-21	190 00	CM389L-21
2 52J-T108	G7925-21	168 00	BT-J-150
1 52P-P103	G7925-21	190 00	CM389L-21
2 52P-P103	G7925-21	168 00	CM389T-21A
1 52P-P105	G7925-21	190 00	CM389L-21
2 52P-P105	G7925-21	168 00	CM389T-21A
1 52P-R102	G7925-23	190 00	CM389L-23
2 52P-R102	G7925-23	168 00	CM389T-23A
1 52P-R104	G7925-21	190 00	CM389L-21
2 52P-R104	G7925-21	168 00	CM389T-21A
1 161353 THRU 161761			
2 161924 AND UP.			
3 161353 THRU 161521.			
4 161522 THRU 161761.			
5 161522 AND UP.			
6 161702 AND UP.			
7 163092 AND UP.			
8 161353 THRU 162909.			

Figure 25. G7056 and G7925 EMI Backshells (Sheet 2)



F/A-18-WRM-(351-2)01-SCAN

Reference Designation to Backshell Data Index

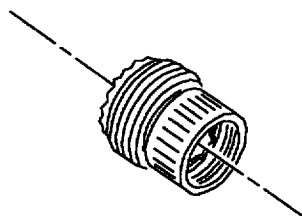
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1 22P-S027	G7924-9-1	190 00	CM389L-9
2 22P-S027	G7924-9-1	168 00	CM389T-9A
1 24P-T008	G7924-11-1	190 00	CM389L-11
2 24P-T008	G7924-11-1	168 00	CM389T-11A
3P-P055	G7057-9-1NF	169 00	CM389L-9
3P-R056	G7057-9-1NF	169 00	CM389L-9
2 4P-P009	G7924-13	168 00	CM389L-13
3 4P-P009	G7924-11-1	190 00	CM389L-11
4 4P-P009	G7924-13	190 00	CM389L-13
2 4P-P021	G7924-13	168 00	CM389L-13
3 4P-P021	G7924-11-1	190 00	CM389L-11
4 4P-P021	G7924-13	190 00	CM389L-13
2 4P-R015	G7924-13	168 00	CM389L-13
3 4P-R015	G7924-11-1	190 00	CM389L-11
4 4P-R015	G7924-13	190 00	CM389L-13
2 4P-R016	G7924-13	168 00	CM389L-13
3 4P-R016	G7924-11-1	190 00	CM389L-11
4 4P-R016	G7924-13	190 00	CM389L-13
2 4P-R022	G7924-13	168 00	CM389L-13
3 4P-R022	G7924-11-1	190 00	CM389L-11
4 4P-R022	G7924-13	190 00	CM389L-13
5J-P111	G7057-9-1NF	172 00	CM389L-9
3 5P-P071	G7057-13-NF	169 00	CM389L-11
5 5P-P071	G7057-13-NF	169 00	CM389L-11
52P-P119	G7057-15-1NF	169 00	CM389L-15
52P-R120	G7057-15-1NF	169 00	CM389L-15

Figure 26. G7057 and G7924 EMI Backshells (Sheet 1)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1 52P-S112	G7924-21	190 00	M389L-21
2 52P-S112	G7924-21	168 00	CM389T-21A
1 161353 THRU 161761.			
2 161924 AND UP.			
3 161353 THRU 161521.			
4 161522 THRU 161761.			
5 161522 AND UP.			

Figure 26. G7057 and G7924 EMI Backshells (Sheet 2)



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Reference Designation to Adapter Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1 4P-P009	S2163-6567-30S	190 00	CM389L-13
2 4P-P009	S2163-6567-30S	168 00	CM389L-13
1 4P-P010	S2163-6567-30S	190 00	CM389L-13
2 4P-P010	S2163-6567-30S	168 00	CM389L-13
1 4P-P021	S2163-6567-30S	190 00	CM389L-13
2 4P-P021	S2163-6567-30S	168 00	CM389L-13
1 4P-R015	S2163-6567-30S	190 00	CM389L-13
2 4P-R015	S2163-6567-30S	168 00	CM389L-13
1 4P-R016	S2163-6567-30S	190 00	CM389L-13
2 4P-R016	S2163-6567-30S	168 00	CM389L-13
1 4P-R022	S2163-6567-30S	190 00	CM389L-13
2 4P-R022	S2163-6567-30S	168 00	CM389L-13
5P-P071	S2160-0609-34	169 00	CM389L-13
52J-R124	S2163-6567-30S	168 00	BT-J-133
1 161522 THRU 161761.			
2 161924 AND UP.			

Figure 27. S2160 and S2163 Adapters

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****PROTECTIVE BOOT INSTALLATION FOR ENVIRONMENTAL TYPE CONNECTORS WITH METAL CABLE CLAMPS**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 19	-	Addition of a Second Shoot Light Power Supply Connector (WUC 44314)	1 Oct 93	-
F/A-18 AFC 27	-	Improvement of Leading Edge Flap Design (ECP-MDA-F/A-18-00044)	15 Mar 87	-
F/A-18 AFC 48	8 Apr 86	Alternating Current Bus Isolation (ECP MDA-F/A-18-00121)	1 Sep 86	-
F/A-18 AFC 49	31 Jan 86	Addition of Sealed Lead Acid Battery (ECP MDA-F/A-18-00074)	1 Sep 86	-

1. INTRODUCTION.

2. This work package explains the procedures for removing and installing protective boots and metal cable clamps.

Support Equipment Required

Part Number or Type
Designation

Nomenclature

3308AS100

Repair Set-Wire and
Connector

Materials Required

Specification or Part
Number

Nomenclature

See Table 2

Silicone Rubber Tape

See Table 3

Reinforced Silicone
Rubber Tape

See Table 1

Cable Clamp Versus
Spacer
























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Lacing Tape


















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




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22J-S027	28
24P-M002	28
24P-N006	27
24P-N021	27
24P-P003	27
24P-P005	27
24P-P007	27
24P-R004	27
33P-J002	21
33P-J007	29
 33P-J015	17
 33P-J015	23
33P-L017	29
 33P-L020	17
4P-T109A	27
 4P-T109B	20
 4P-T109B	27
4P-T109C	27
4P-T109D	27
52J-P103	27
 52J-P112	27
 52J-P112	28
52J-R102	27
 52P-H075	21
52P-T108	27
 61J-R034	20
 61P-B185	24
 61P-B185	25
61P-E009A	24
 61P-F034	20
61P-U045	20
61P-V046	20
 62P-B014A	21
 64P-E001A	26
 64P-E001A	24
 64P-E001B	26
 64P-E001B	24
 64P-E001G	25
 64P-E001Q	19

Reference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.
 64P-E001Q	25
 65P-K003	25
 65P-L003	25
 65P-P001A	24
 65P-P001B	24
 65P-R002A	24
 65P-R002B	24
67P-T001A	25
69P-F001B	24
70P-E005	24
71P-B001B	24
72P-A002B	25
72P-B001A	30
74P-B001A	17
74P-F002A	17
74P-F002B	23
76P-J008A	24
76P-J008B	22
 77J-G002	24
 77J-G002	25
 79P-E021A	24
 79P-L021A	25
8P-J020	29
8P-J021	29
8P-K126	29
 8P-L080A	20
8P-L118	31
80P-H001B	18
80P-J002B	18
 80P-K019B	18
 80P-L017B	18
 84P-C026A	21
 84P-M021A	21
 84P-M021B	21
84P-U013B	21
84P-V014B	21

LEGEND

 62394 AND UP, ALSO 161702 THRU 161987 AFTER F18 AFC 48; F/A-18A 161353 THRU 161528 AFTER F18 AFC 49.
 161702 THRU 161987 BEFORE F18 AFC 48.
 161702 AND UP.
 161353 THRU 161528.
 F/A-18B.

Reference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.
6 161360 AND UP.	
7 161353 THRU 161705, AND 161707.	
8 161706, AND 161708 AND UP.	
9 F/A-18A 162394 AND UP.	
10 F/A-18A 161353 THRU 161987.	
11 F/A-18B 161704 AND UP.	
12 F/A-18A 161702 AND UP.	
13 161353 THRU 161528; ALSO 161702 THRU 163175 BEFORE F18 AFC 50.	
14 161353 THRU 161521.	
15 F/A-18A 161522 AND UP, F/A-18B 161704 THRU 161947, 162836 AND UP.	
16 161925 AND UP.	
17 161353 THRU 161924.	
18 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.	
19 161353 THRU 161359 AFTER F18 AFC 19.	

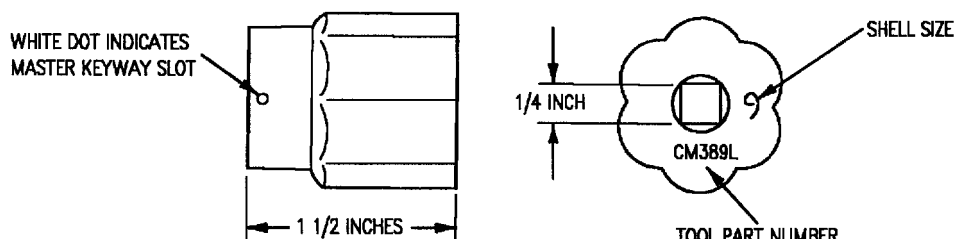
Reference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.
20 F/A-18A 161353 THRU 161519 AFTER F18 AFC 27.	
21 F/A-18A.	
22 161716 AND UP.	
23 F/A-18A 162394 AND UP, ALSO 161353 THRU 161987 AFTER F18 AFC 48; F/A-18B 162402 AND UP, ALSO 161354 THRU 161947 AFTER F18 AFC 48.	
24 161353 THRU 161359.	

3. PROCEDURE.

4. CM ADAPTER TOOLS.

a. Select tool part number to shell size from tool data in reference designation to backshell data index for specific cable clamp. See figure 1.



MIL-C-38999 SERIES 1

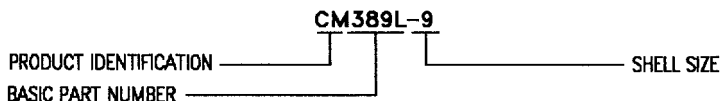
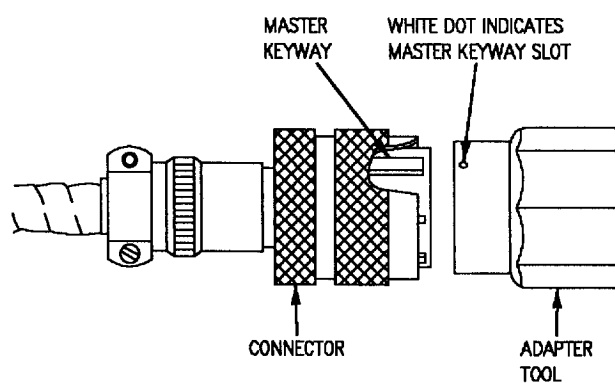


Figure 1. CM Adapter Tool Part Numbering System



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

b. Mate adapter tool to connector, see figure 2.



F/A-18-WRM-(851-1)02-CAT1

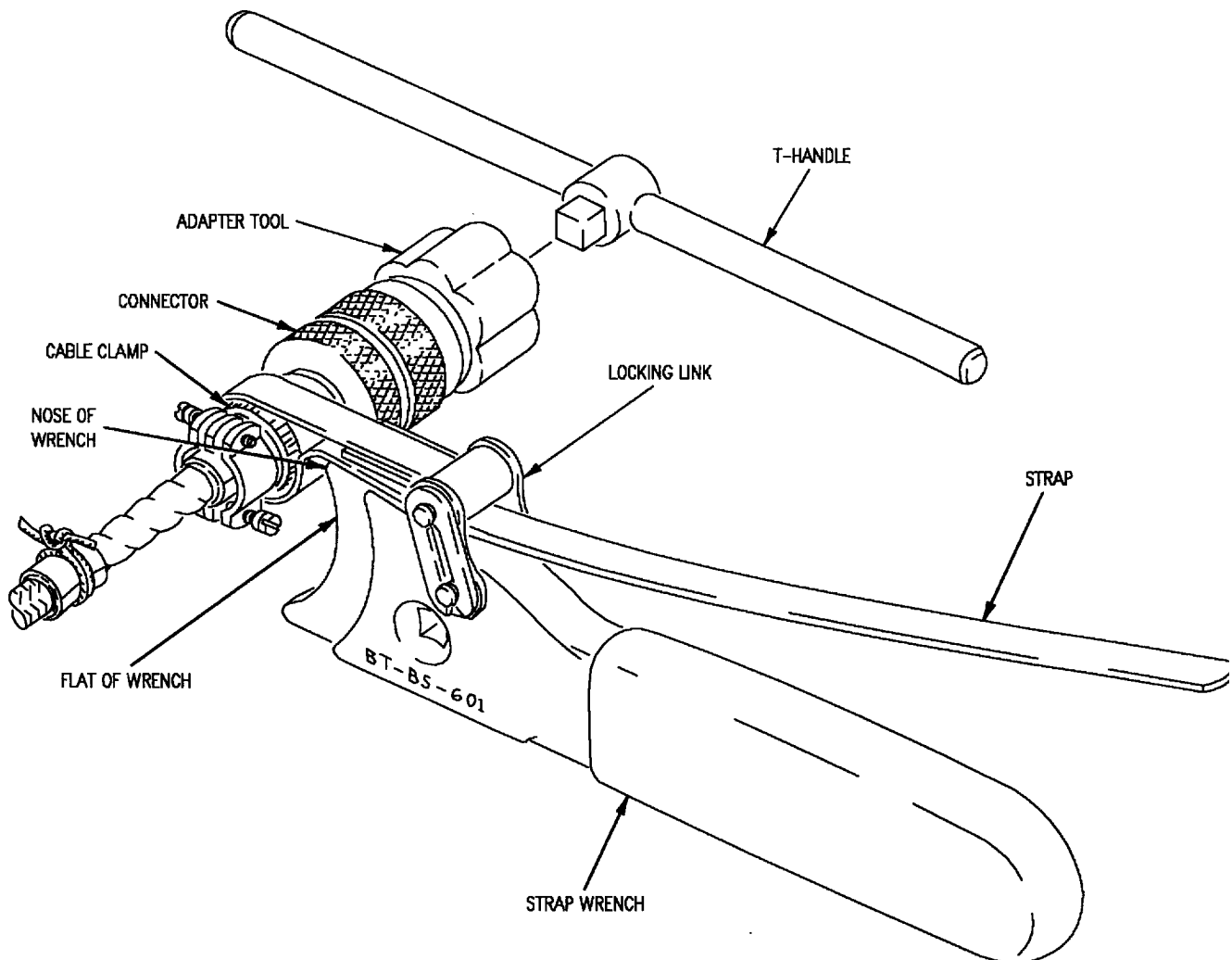
Figure 2. Adapter Tool Mating

5. STRAP WRENCH.

a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rests on nose of wrench, see figure 3.

NOTE

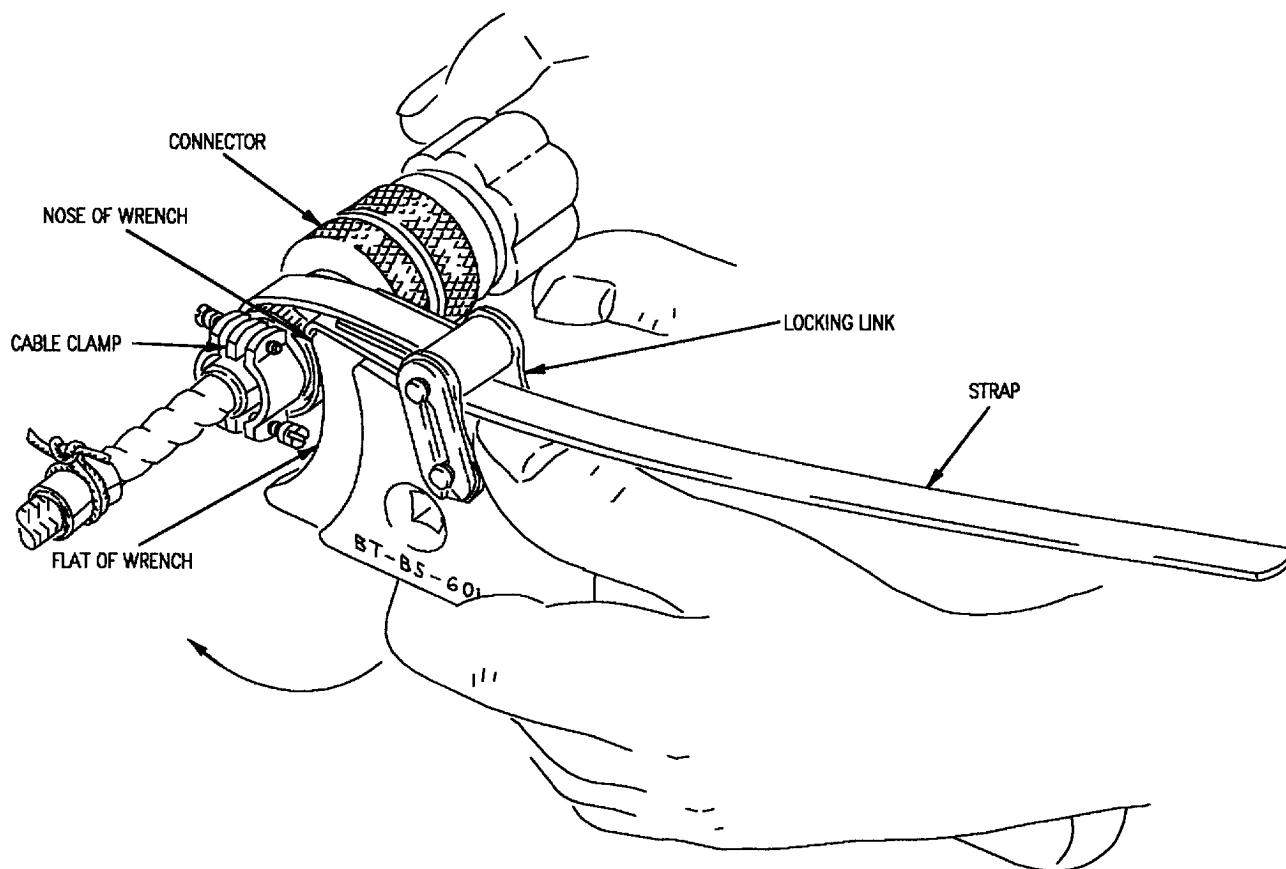
T-Handle can be used for additional gripping force to adapter if required.



F/A-18-WRM-(852-1)02-SCAN

Figure 3. Strap Wrench Setup and Adjustment

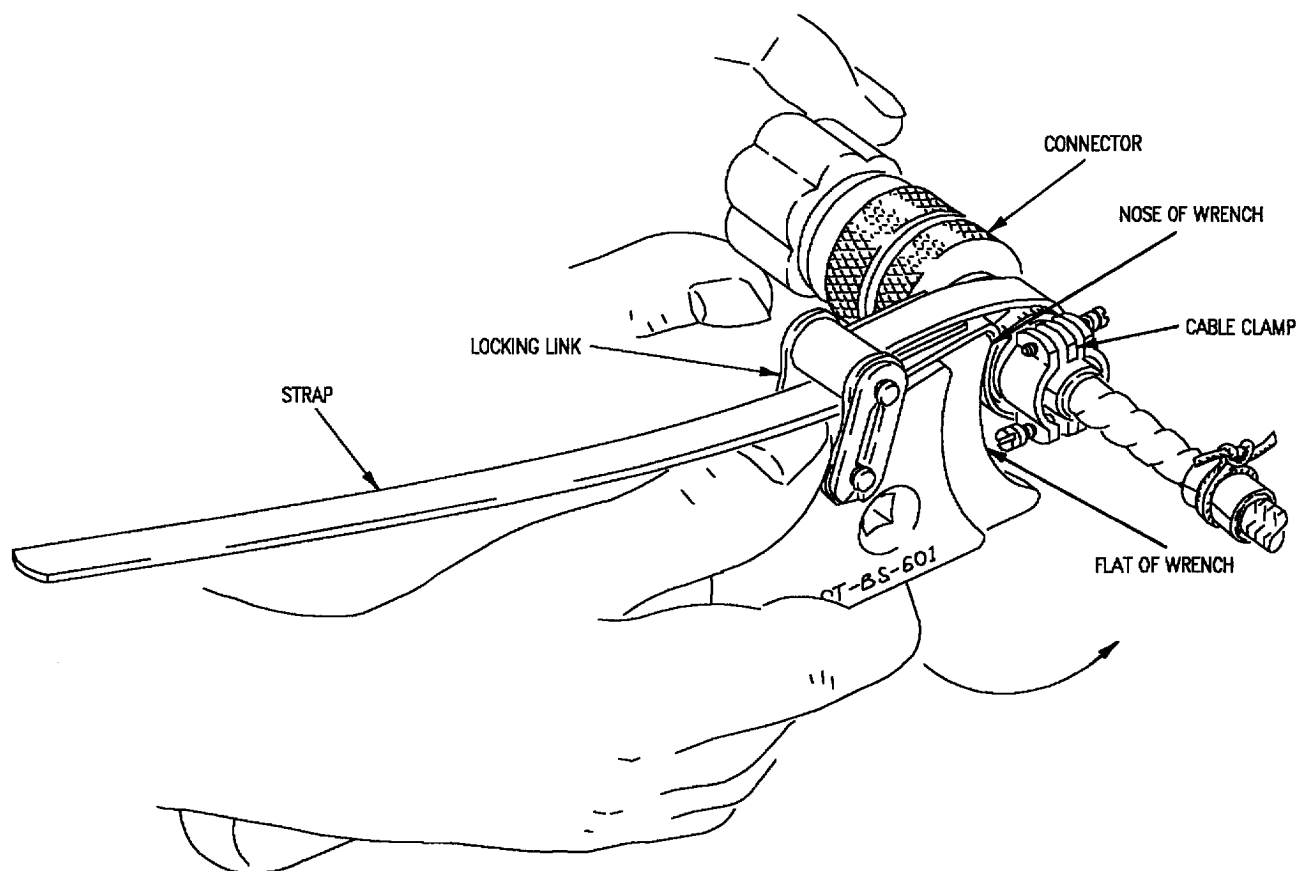
b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector. The clamp and strap are tucked beneath the nose of the wrench and against the flat of the wrench, see figure 4.



F/A-18-WRM-(852-2)02-SCAN

Figure 4. Tightening Position of Wrench

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector see figure 5.



F/A-18-WRM-(852-3)02-SCAN

Figure 5. Loosening Position of Wrench

6. DISASSEMBLY PROCEDURE.

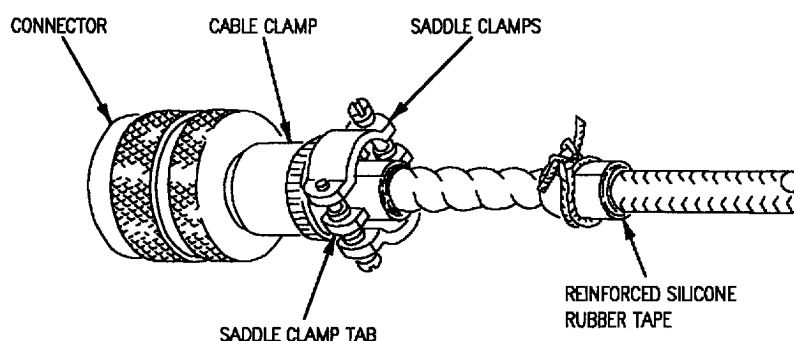
NOTE



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

If necessary for metal to metal contact, spacers will be used between the saddle clamps and the saddle clamp tabs. When disassembling back-shells keep spacers for reuse.

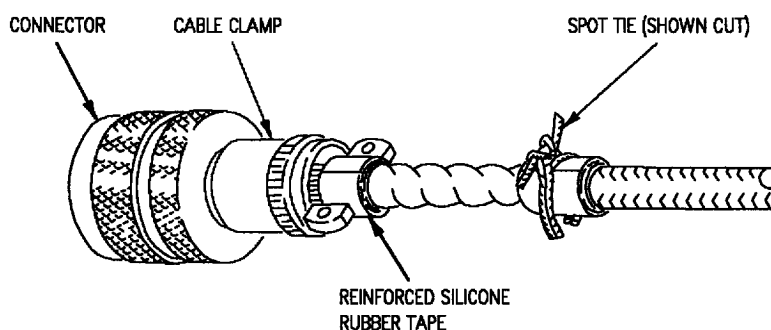
- a. Loosen saddle clamp screws, if necessary, remove and keep for reuse see figure 6.



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Figure 6. Remove Saddle Clamps

- b. Cut and remove spot tie see figure 7.



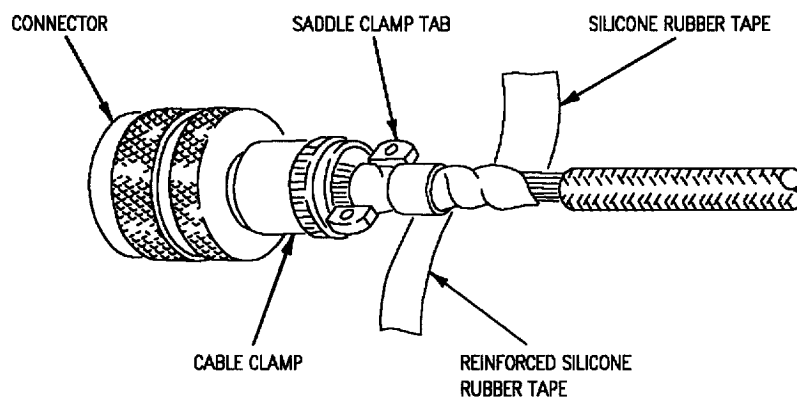
F/A-18-WRM-(852-5)02-SCAN

Figure 7. Spot Tie Removal



When cutting boot material with a sharp tool extreme care must be taken not to nick or scrape the wire insulation beneath the cut.

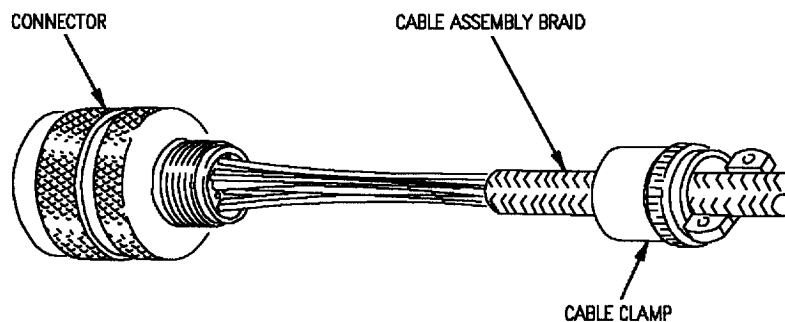
- c. Cut or unwrap silicone rubber tape and reinforced silicone rubber tape see figure 8.



F/A-18-WRM-(852-6)02-SCAN

Figure 8. Silicone Rubber Tape and Reinforced Silicone Rubber Tape Boot Removal

- d. Loosen and remove cable clamp from connector and slide back onto cable assembly braid see figure 9.

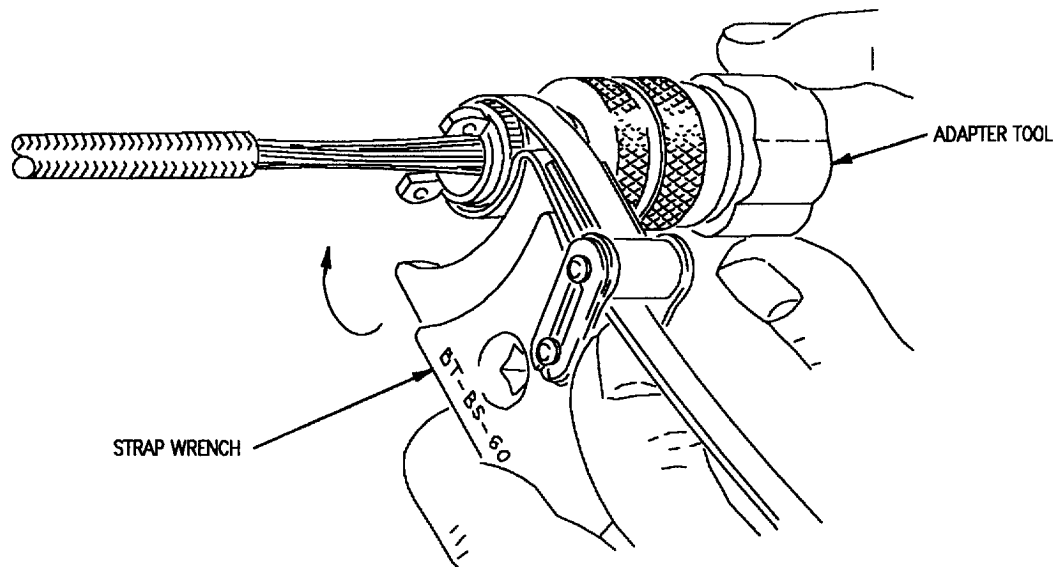


F/A-18-WRM-(852-7)02-SCAN

Figure 9. Removing Cable Clamp

7. REASSEMBLY PROCEDURE

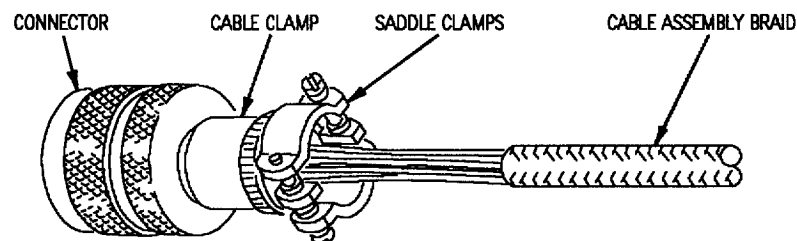
- a. Hand tighten cable clamp onto connector, tighten an additional quarter turn with wrench, see figure 10.



F/A-18-WRM-(852-8)02-SCAN

Figure 10. Installing Cable Clamp

- b. Loosely install saddle clamps with saddle clamp screws. See figure 11.



F/A-18-WRM-(852-9)02-SCAN

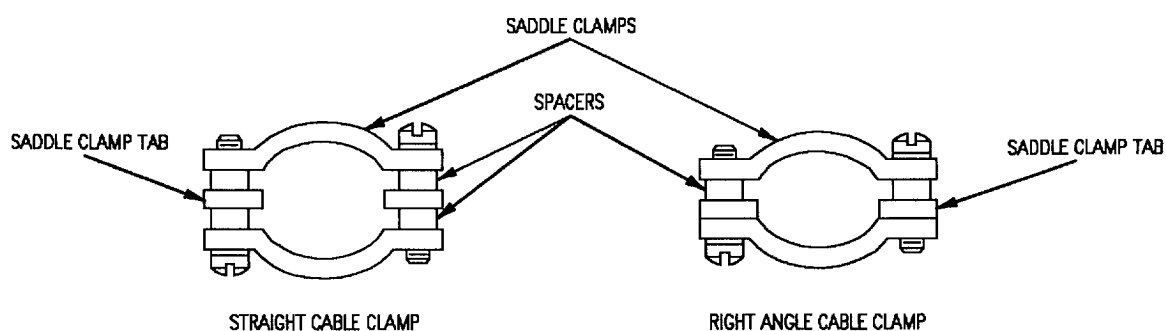
Figure 11. Installing Saddle Clamps

NOTE

Make sure the clamp jaws make metal to metal contact.

c. The tape buildup for metal clamps shall be applied to allow metal to metal contact of saddle clamp

tabs when fully tightened. If cable assembly is too large to allow metal to metal contact, install spacers (table 1) on screws to create needed space. Use two spacers of equal length on right angle cable clamps, and four spacers of equal length on straight strain relief cable clamps. See figure 12.



F/A-18-WRM-(852-10)02-SCAN

Figure 12. Spacers for Metal to Metal Contact

Table 1. Cable Clamp Versus Spacer

Part Number	Spacer Number
B22AC-H	NAS43DD
G7165B	NAS43DD
MS27291 *	NAS43DD
MS27506*** *	NAS43DD
MS3188****	NAS43DD
MS3417	NAS43DD
MS3418	NAS43DD
MS3437	NAS43DD
M38999-7 *****	NAS43DD
M38999-8 *****	NAS43DD
M81511 ** ****	NAS43DD
SE54C0703A59	NAS43DD
SE6C0703A125-59	NAS43DD
ST5M1660 **	NAS1057T
S1720-03-30S-S	NAS1057T
S1841-65-30S	NAS1057T
S1841-72-30S	NAS1057T
S1841-74-30S	NAS1057T
S1842-64-30S	NAS1057T
S1842-65-30S	NAS1057T
S1842-71-30S	NAS1057T
S1842-72-30S	NAS1057T
S1855-6409-30SD	NAS1057T
S1855-6511-30SD	NAS1057T

Table 1. Cable Clamp Versus Spacer (Continued)

Part Number	Spacer Number
S1855-6713-30SD	NAS1057T
S1855-6915-30SD	NAS1057T
S1855-7017-30SD	NAS1057T
S1855-7119-30SD	NAS1057T
S1855-7119-30SD	NAS1057T
S1855-7221-30SD	NAS1057T
S1855-7423-30SD	NAS1057T
S1855-7425-30SD	NAS1057T
S2015-18R30SD	NAS1057T
17063-7-023	NAS43DD
17063-19-023	NAS43DD
17541-3	NAS43DD
17541-3-023	NAS43DD
5M1661 ** *	NAS1057T

Disregard “*” part of part number. Use spacer(s) with hole size no. 6 or no. 10. Correct fit to the bundle can be achieved by using the thickness: 7/64 inches, 1/8 inches, and 1/4 inches.

Table 2. Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-46852 TYPE-2, 1.000 IN. BLK	38138 07099	1.000 1.000
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

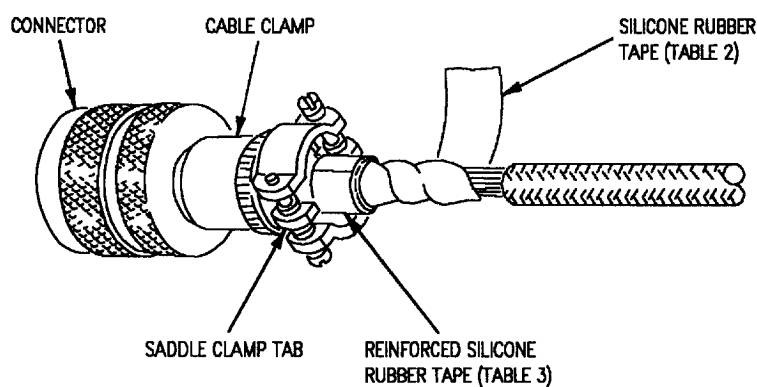
Table 3. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-5025	07099	1/2
S-80	07099	1/2
REINFORCED WITH FIBERGLASS SELF - BONDING COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

NOTE

For best results when applying silicone rubber tape, hands should be free of dirt and oil. The leading edge of silicone rubber tape should protrude through strain relief clamp hardware 1/8 inch when assembly is complete.

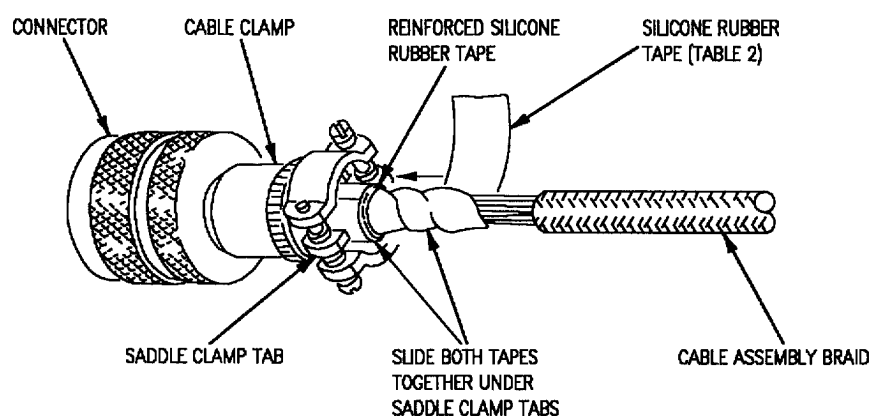
d. Wrap 1 or 2 turns of silicone rubber tape over exposed wires and build up layers of reinforced silicone rubber tape wrapped over the silicone rubber tape near the clamp. See figure 13.



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Figure 13. Wrapping Silicone Rubber Tape and Reinforced Silicone Rubber Tape Buildup

e. Slide tape under clamp. See figure 14.



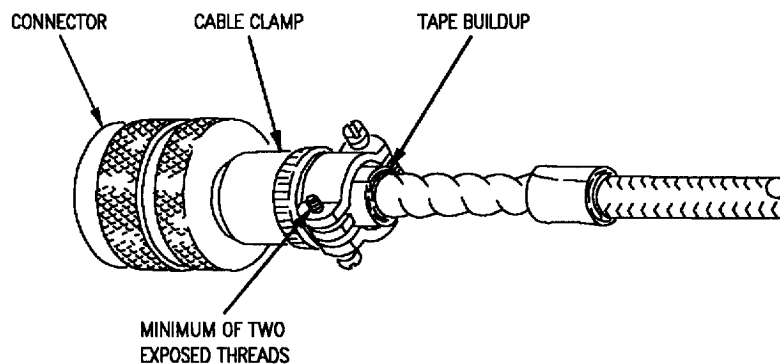
F/A-18-WRM-(852-12)02-SCAN

Figure 14. Positioning Reinforced Silicone Rubber Tape



The cable clamp shall not be in direct contact with cable/harness assembly. The amount of tape under clamp saddle must be at least 1 layer, plus the amount needed to build up for a secure fit of clamp to bundle when screws are tightened and metal to metal contact is obtained.

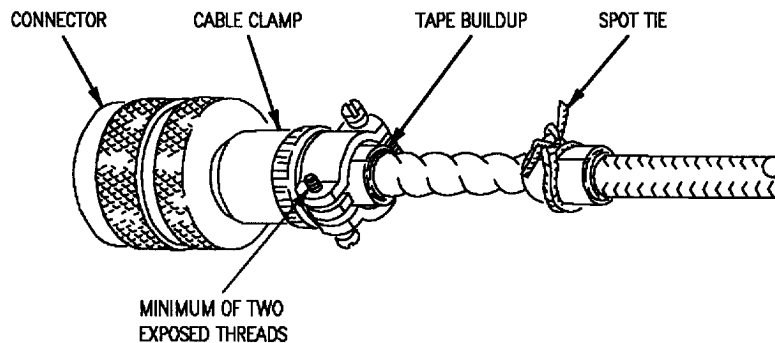
f. Continue to wrap silicone rubber tape over exposed wire and onto cable assembly braid the width of the tape, wrap tape back in the direction of the connector one full turn. See figure 15.



F/A-18-WRM-(852-13)02-SCAN

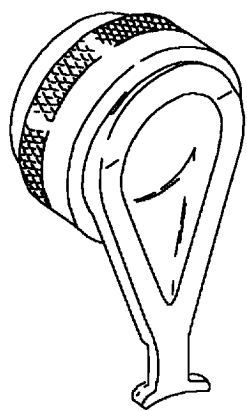
Figure 15. Wrapping Silicone Rubber Tape

g. Spot tie silicone rubber tape end as shown. See figure 16.



F/A-18-WRM-(852-14)02-SCAN

Figure 16. Securing Silicone Rubber Tape Boot

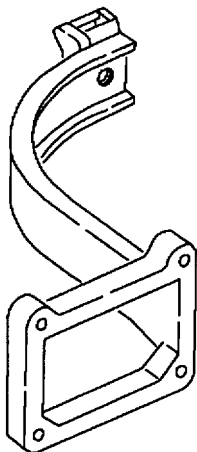


F/A-18-WRM-(870-3)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
<div>1</div> 33P-J015	GTR23-14B	165 00	CM815S-14A
<div>2</div> 33P-L020	GTR23-14B	165 00	CM815S-14A
74P-B001A	GTR23-14B	165 00	CM815S-14A
74P-F002A	GTR23-14B	165 00	CM815S-14A
<div>1</div> 161360 AND UP.			
<div>2</div> F/A-18B.			

Figure 17. GTR23 Backshell



F/A-18-WRM-(870-15)02-SCAN

Reference Designation to Backshell Data Index




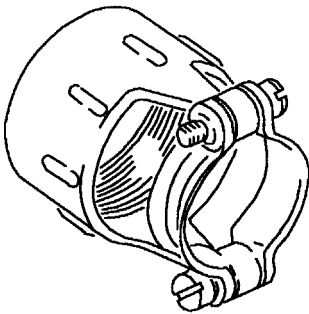
REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
80P-H001B	J1305BR-8	200 00	None
80P-J002B	J1305BR-8	200 00	None
 80P-K019B	J1305BR-8	200 00	None
 80P-L017B	J1305BR-8	200 00	None
 F/A-18B.			

Figure 18. J1305 Backshell

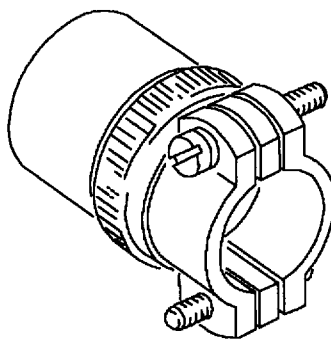


F/A-18-WRM-(870-19)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
<div><div>1</div>64P-E001Q</div>	MS27291-6	182 00	BT837-22-A
<div><div>1</div>161702 AND UP.</div>			

Figure 19. MS27291-6 Backshell

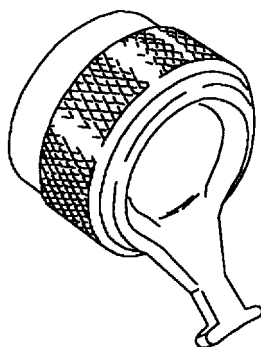


F/A-18-WRM-(870-4)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1 4P-T109B	M85049/49-2-8W	169 00	CM389L-9
1 61J-R034	MS27506B14-2	172 00	
3 61P-F034	MS27506B15-1	169 00	CM389L-15
61P-U045	MS27506B11-1	169 00	CM389L-11
61P-V046	MS27506B11-1	169 00	CM389L-11
2 8P-L080A	MS27506B12-2	169 00	CM389L-13
1 F/A-18B.			
2 161353 THRU 161359 AFTER F18 AFC 19.			
3 F/A-18A.			

Figure 20. MS27506BXX-X and M85049/49-2-8W Backshells

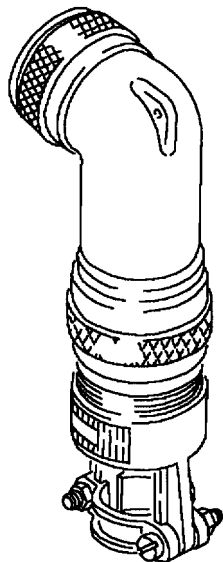


F/A-18-WRM-(870-2)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1 33P-J002	MS27669B10	169 00	CM389L-11
2 33P-J002	M85049/57-10W	169 00	CM389L-11
5 52P-H075	MS27669B14	169 00	CM389L-15
6 62P-B014A	MS27669B14	169 00	CM389L-15
3 84P-C026A	MS27669B12	169 00	CM389L-13
4 84P-M021A	MS27669B12-2	169 00	CM389L-13
3 84P-M021B	MS27669B12	169 00	CM389L-13
84P-U013B	MS27669B12	169 00	CM389L-13
84P-V014B	MS27669B12	169 00	CM389L-15
1 F/A-18B 2 F/A-18A 3 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27. 4 F/A-18A 161353 THRU 161519 AFTER F18 AFC 27. 5 161716 AND UP. 6 161702 AND UP.			

Figure 21. MS27669/BXX-X and M85049/57-01W Backshells

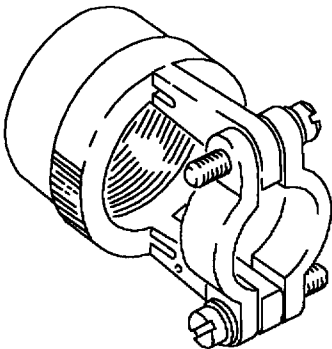


F/A-18-WRM-(870-5)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
76P-J008B	MS3188C09A	161 00	CM264-14

Figure 22. MS3188C09A Backshell

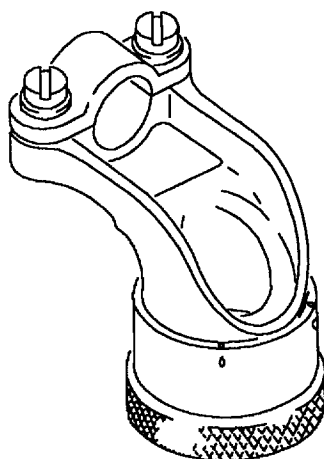


F/18-WRM-WRM-(870-7)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
<div><div>1</div><div>33P-J015 74P-F002B</div></div>	M81511-13-14A1 81511-13-14A1	165 00 165 00	CM815S-14A CM815S-14A
<div><div>1</div><div>161353 THRU 161359.</div></div>			

Figure 23. M81511-13-XXXX Backshell

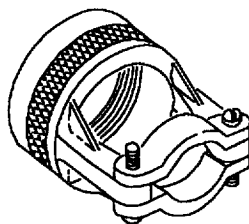


F/18-WRM-WRM-(870-8)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1 1P-A135	M85049/51-1-16W	157 00	CM5015-16
7 61P-B185	M85049/51-1-8W	161 00	CM264-8
61P-E009A	M85049/51-1-24W	161 00	CM264-24
2 64P-E001A	M85049/51-1-22W	157 00	CM5015-22
2 64P-E001B	M85049/51-1-22W	157 00	CM5015-27
5 65P-P001A	M85049/51-1-12W	161 00	CM264-12
6 65P-P001B	M85049/51-1-12W	161 00	CM264-12
5 65P-R002A	M85049/51-1-12W	161 00	CM264-12
6 65P-R002B	M85049/51-1-12W	161 00	CM264-12
69P-F001B	M85049/51-1-22W	161 00	CM264-22
70P-E005	M85049/51-1-18W	157 00	CM5015-18
71P-B001B	M85049/51-1-16W	161 00	CM264-16
76P-J008A	M85049/51-1-16W	161 00	CM264-16
3 77J-G002	M85049/51-1-16W	161 00	CM264-16
4 79P-E021A	M85049/51-1-22A	161 00	CM264-22
1 162394 AND UP; ALSO 161702 THRU 161987 AFTER F18 AFC 48; ALSO F/A-18A 161353 THRU 161528 AFTER F18 AFC 49. 2 161353 THRU 161528. 3 F/A-18A 162394 AND UP. 4 F/A-18B 161704 AND UP. 5 161353 THRU 161521. 6 F/A-18A 161522 AND UP; F/A-18B 161704 THRU 161947, 162836 AND UP. 7 161353 THRU 161924.			

Figure 24. M85049/51-X-XXX Backshell

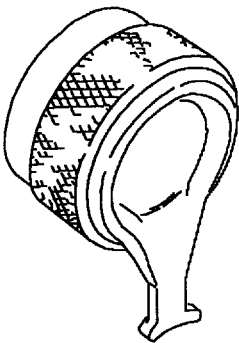


F/A-18-WRM-(870-6)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1J-G089	M85049/52-1-18W	157 00	CM5015-18
1 1P-A135	M85049/52-1-16W	157 00	CM5015-16
10P-P003	M85049/52-1-14W	157 00	CM5015-14
10P-R004	M85049/52-1-14W	157 00	CM5015-14
5 61P-B185	M85049/52-1-8W	161 00	CM264-8
4 64P-E001G	M85049/52-1-10W	161 00	CM264-10
6 64P-E001Q	M85049/52-1-22W	153 00	CM837-22A
7 65P-K003	M85049/52-1-14W	161 00	CM264-14
8 65P-L003	M85049/52-1-14W	161 00	CM264-14
67P-T001A	M85049/52-1-14W	161 00	CM264-14
72P-A002B	M85049/52-1-14W	161 00	CM264-14
2 77J-G002	M85049-52-1-16W	161 00	
3 79P-L021A	M85049/52-1-22W	161 00	CM264-22
1 161702 THRU 161987 BEFORE F18 AFC 48. 2 F/A-18A 161353 THRU 161987. 3 F/A-18A 161702 AND UP. 4 161353 THRU 161528; ALSO 161702 THRU 163175 BEFORE F18 AFC 50. 5 161925 AND UP. 6 161353 THRU 161528. 7 F/A-18B. 8 F/A-18A.			

Figure 25. M85049/52-X-XXX Backshell

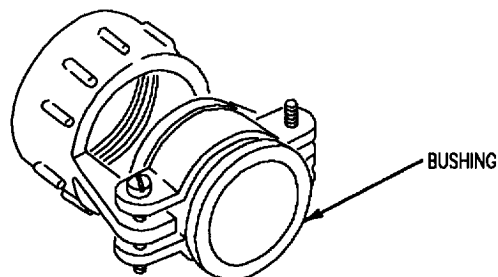


F/A-18-WRM-(870-20)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
<div><div>1</div>64P-E001A</div>	M85049/55-22W	157 00	CM5015-22
<div><div>1</div>64P-E001B</div>	M85049/55-22W	157 00	CM5015-22
<div><div>1</div>161702 AND UP</div>			

Figure 26. M85049/55-22W Backshell

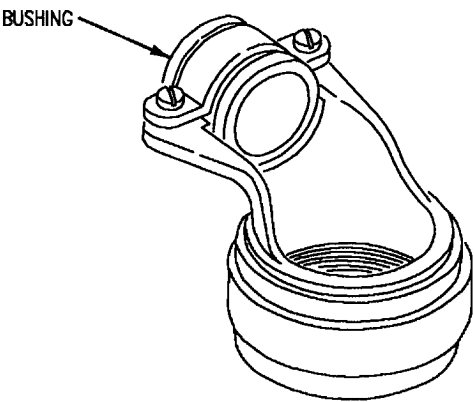


F/18-WRM-WRM-(870-9)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1 24P-N006	S1841-65-30S	168 00	CM389T-11A
2 24P-N006	S1841-65-30S	190 00	
1 24P-N021	S1841-65-30S	168 00	CM389T-11A
2 24P-N021	S1841-65-30S	190 00	
1 24P-P003	S1841-65-30S	168 00	CM389T-11A
2 24P-P003	S1841-65-30S	190 00	
1 24P-P005	S1841-65-30S	168 00	CM389T-11A 22
2 24P-P005	S1841-65-30S	190 00	
1 24P-P007	S1841-65-30S	168 00	CM389T-11A
2 24P-P007	S1841-65-30S	190 00	
1 24P-R004	S1841-65-30S	168 00	CM389T-11A
2 24P-R004	S1841-65-30S	190 00	
4P-T109A	S1720-03-30S-S	169 00	CM389L-9
5 4P-T109B	S1720-03-30S-S	169 00	CM389L-9
4P-T109C	S1720-03-30S-S	169 00	CM389L-9
4P-T109D	S1720-03-30S-S	169 00	CM389L-9
1 52J-P103	S1841-72-30S	168 00	BT-J-150
2 52J-P103	S1841-72-30S	190 00	
4 52J-P112	S1841-72-30S	190 00	BT389T
1 52J-R102	S1841-74-30S	168 00	BT-J-151
2 52J-R102	S1841-74-30S	190 00	
1 52P-T108	S1841-72-30S	168 00	CM389T-20A
2 52P-T108	S1841-72-30S	190 00	
1 161924 AND UP. 2 161353 THRU 161761. 3 F/A-18A 161925 AND UP, F/A-18B 161924 THRU 161947, 162836 AND UP. 4 161353 THRU 161705, AND 161707. 5 F/A-18A.			

Figure 27. S1720-03-30S-S and S1841-XX-XXX Backshells

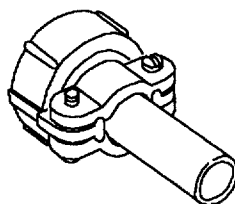


F/A-18-WRM-(870-10)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
<div><div>3</div>2J-P015</div>	S1842-71-30S	168 00	BT-J-130 BT-J-130 CM389T-11A BT-J-150
<div><div>1</div>2J-P015</div>	S1842-71-30S	190 00	
<div><div>1</div>22J-S027</div>	S1842-64-30S	190 00	
<div><div>2</div>22J-S027</div>	S1842-64-30S	168 00	
<div><div>1</div>24P-M002</div>	S1842-65-30S	190 00	
<div><div>2</div>24P-M002</div>	S1842-65-30S	168 00	
<div><div>4</div>52J-P112</div>	S1842-72-30S	168 00	
<div><div>1</div>161353 THRU 161761.</div>			
<div><div>2</div>161924 AND UP.</div>			
<div><div>3</div>F/A-18A 161925 AND UP, F/A-18B 161924 THRU 161947, AND 162836 AND UP.</div>			
<div><div>4</div>161706, AND 161708 AND UP.</div>			

Figure 28. S1842-XX-XXX Backshell

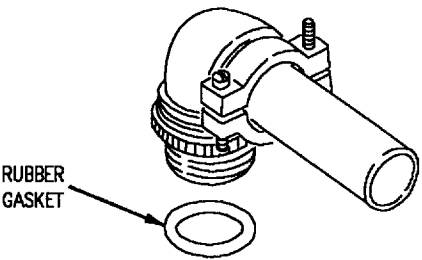


F/A-18-WRM-(870-12)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
33P-J007	17541-3-023	179 00	None
33P-L017	17541-3	179 00	None
8P-J020	17541-3-023	179 00	None
8P-J021	17541-3-023	179 00	None
8P-K126	17541-3	179 00	None

Figure 29. 17541-X-XXX Backshell

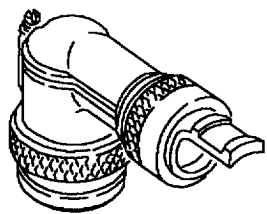


F/A-18-WRM-(870-11)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
1 1P-A019	380NE083NF7	179 00	None
1 1P-C019	380NE083NF7	179 00	None
72P-B001A	380NE083NF7	178 00	None
1 F/A-18A 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 48 F/A-18B 162402 AND UP; ALSO 161354 THRU 161947 AFTER F18 AFC 48.			

Figure 30. 380NE083NF7 Backshell



F/A-18-WRM-(870-14)02-SCAN

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL NUMBER
8P-L118	380NE083T3	179 00	None

Figure 31. 380NE083T3 Backshell

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****PROTECTIVE BOOT INSTALLATION FOR ENVIRONMENTAL TYPE CONNECTORS
WITH S3957XXX-34 MOLDED PLASTIC CABLE CLAMP BACKSHELLS**

Reference Material

None

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











Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 27	-	Improvement of Leading Edge Flap Design (ECP MDA-F/A-18-00044)	15 Mar 87	-
F/A-18 AFC 48	-	Automatic AC Bus Isolation, Incorporation of	1 Oct 93	-
F/A-18 AFC 49	-	Addition of Sealed Lead Acid Battery	1 Oct 93	-
F/A-18 AFC 39	-	No. 1 Fuel Tank Interconnect Valve Replacement and Fuel Sequencing Modification	1 Oct 93	-
F/A-18 AFC 41	19 Sep 85	Throttle Thrust Sensitivity, Reduction of (ECP MDA-F/A-18-0054C1)	1 Sep 86	-






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F/A-18 AFC 53	30 Jun 88	Tanks 1 and 4 Sneak Circuit, Elimination of; Raised Inverted Flight Baffle, Replacement of and Tank 4 Motive Flow Shutoff Valve, Incorporation of	1 Oct 93	-
F/A-18 AFC 54	-	Video Recording Set, Incorporation of	1 Oct 93	-
F/A-18 AFC 57	30 Mar 90	Improved Aircraft Monitor and Control (AMAC), Installation of	1 Oct 93	-
F/A-18 AFC 225	-	Addition of Mux 4 and 5 (ECP MDC-F/A-18-00529)	1 Sep 02	-
F/A-18 AFC 231	-	Addition of Embedded GPS/INS (ECP MDC-F/A-18-00521)	1 Sep 02	-
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade; Incorporation of (ECP MDA-F/A-18-0560R1)	1 Sep 02	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade; Incorporation of (ECP MDA-F/A-18-0583)	1 Sep 02	-

























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





















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











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









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










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






















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






























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

























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




























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























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



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






















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85P-N002C	37
85P-N002D	37
9P-P005	38

LEGEND

1 161702 AND UP.	
2 161353 THRU 161528.	
3 161353 THRU 161357.	
4 161359 AND UP.	
5 161520 AND UP.	
6 161354 THRU 161987 BEFORE F18 AFC 48.	
7 161353 THRU 161519.	
8 F/A-18A 161702 AND UP.	
9 F/A-18B 161704 AND UP.	
10 F/A-18A.	
11 F/A-18B.	
12 161353 THRU 161924.	
13 161925 AND UP.	
14 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 49.	
15 F/A-18A 161702 AND UP, F/A-18B; ALSO F/A-18A 161353 THRU 161528 AFTER F18 AFC 54.	
16 F/A-18A 161353 THRU 162909.	
17 F/A-18A 163092 AND UP.	
18 163119 AND UP.	
19 161353 THRU 161519 BEFORE F18 AFC 49.	
20 161737 AND UP.	
21 162826 AND UP.	
22 F/A-18A 161520 AND UP, F/A-18B 161704 THRU 161947, AND 162836 AND UP.	
23 161520 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 27.	
24 F/A-18B 163104 AND UP.	
25 161702 AND UP; ALSO 161353 161528 AFTER F18 AFC 49.	

Reference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.
26 F/A-18A, F/A-18B 161354 THRU 161947, 162836 AND UP.	
27 F/A-18A 161520 AND UP, F/A-18B 161170 THRU 161947, AND 162836 AND UP.	
28 162445 AND UP.	
29 161353 THRU 161359.	
30 161353 THRU 161715.	
31 161353 THRU 161521.	
32 161353 THRU 161528 BEFORE F18 AFC 49.	
33 161353 THRU 161528 BEFORE F18 AFC 41.	
34 F/A-18A 161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 54.	
35 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.	
36 161353 THRU 161528 AFTER F18 AFC 49 AND 161702 THRU 161987 BEFORE F18 AFC 48.	
37 161360 AND UP; ALSO 161353 THRU 161359 AFTER F18 AFC 53.	
38 162394 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 49, AND 161702 THRU 161987 AFTER F18 AFC 48.	
39 161353 THRU 161519 BEFORE F18 AFC 27.	
40 F/A-18A 161353 THRU 161519 AFTER F18 AFC 39.	
41 F/A-18A 161520 AND UP, F/A-18B.	
42 F/A-18A 161353 THRU 161519.	
43 162394 AND UP; ALSO 161702 THRU 161987 AFTER F18 AFC 48.	
44 161925 AND UP; ALSO 161248 THRU 161924 AFTER F18 AFC 57.	
45 F/A-18A 161353 THRU 161519; ALSO F/A-18B 161354 THRU 161360 BEFORE F18 AFC 27.	
46 161361 AND UP; ALSO 161353 THRU 161360 AFTER F18 AFC 27.	
47 161982 AND UP.	
48 161520 THRU 161981.	

Reference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.
49 162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 48.	
50 161522 AND UP.	
51 161720 AND UP.	
52 161353 THRU 161360 BEFORE F18 AFC 27.	
53 161353 THRU 161519 BEFORE F18 AFC 27.	
54 F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.	
55 161925 AND UP AFTER F/A-18 AFC 231.	
56 F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 292.	
57 F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292; ALSO 161925 AND UP AFTER F/A-18 AFC 225.	

1. DESCRIPTION.

2. This work package describes procedures for installing protective boots on environmental type connectors with S3957XXX-34 molded plastic cable clamps for electromagnetic interference EMI and non-EMI applications.

3. The J1317 EMI adapter is a two piece adapter used to install EMI backshells on rectangular connectors.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire And Connector

Materials Required

Specification or Part Number	Nomenclature
See Table 1	Teflon Barrier Tape
See Table 2	Reinforced Silicone Rubber Tape
See Table 3	Mini Band
See Table 4	Wire Mesh Tape
See Table 5	Tedlar Tape
See Table 6	Expandable Sleeving
See Table 7	Silicone Rubber Tape
SN60WRMAP2-0-040	Solder
MIL-T-43435, TYPE 2, SIZE 3, FINISH-C	Tape Lacing

4. GENERAL TOOLING PROCEDURES.

5. CM ADAPTER TOOLS.

a. CM adapter tool is shown in figure 1. Select tool part number to shell size from tool data in reference designation to backshell data index for specific cable clamp.



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool on connector until it slips into place causes unnecessary wear to tools, keys and keyways.

b. Mate adapter tool to connector. See figure 2.

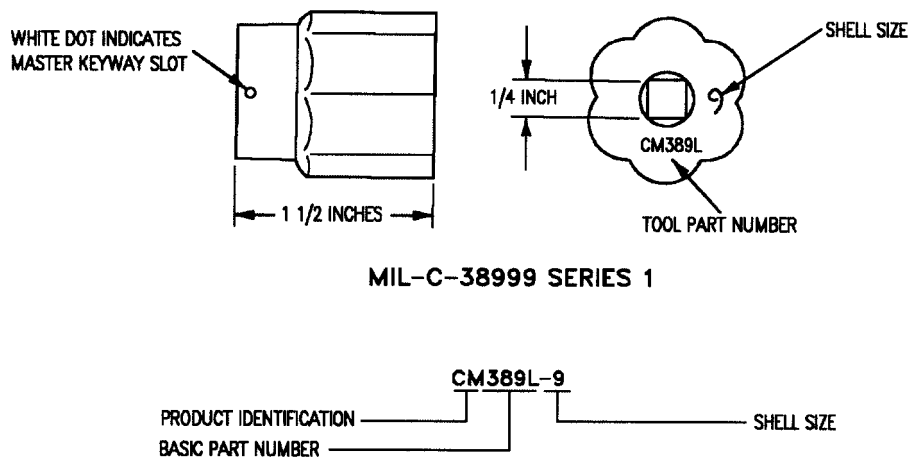


Figure 1. CM Adapter Tool Part Numbering System

090001

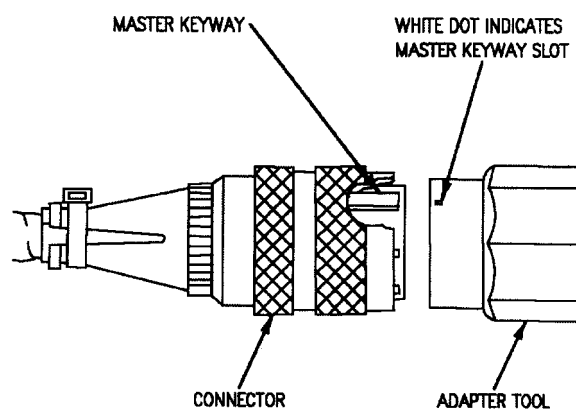


Figure 2. Adapter Tool Mating

090002

6. STRAP WRENCH.

a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rest on nose of wrench. See figure 3.

NOTE

T-Handle can be used for more gripping force to adapter if required.

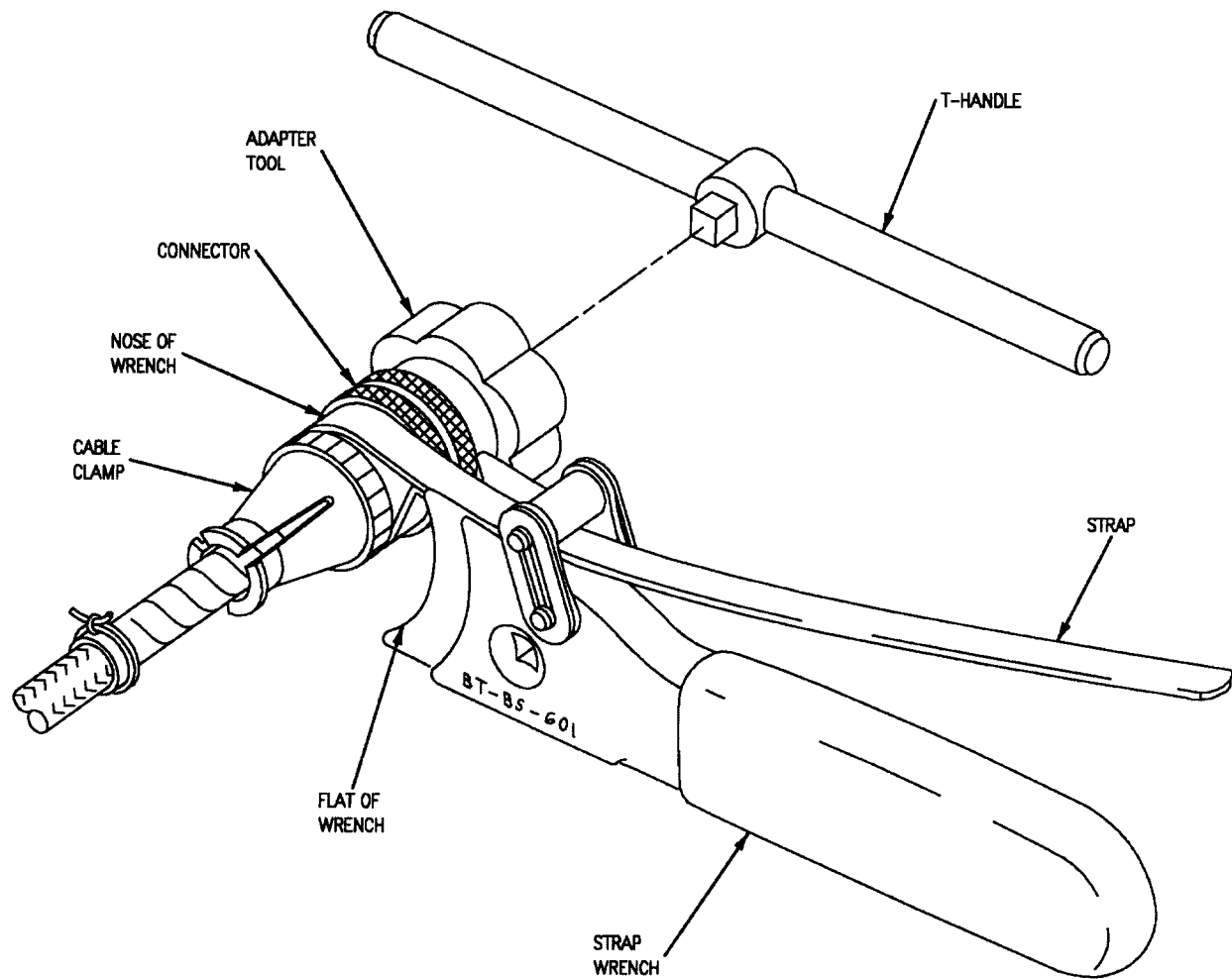


Figure 3. Strap Wrench Setup and Adjustment

b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector. The clamp and strap are tucked under the nose of the wrench and against the flat of the wrench. See figure 4.

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector. See figure 5.

7. BOOT INSTALLATION WITH ELECTRO-MAGNETIC INTERFERENCE (EMI) APPLICATION.

8. DISASSEMBLY PROCEDURE.

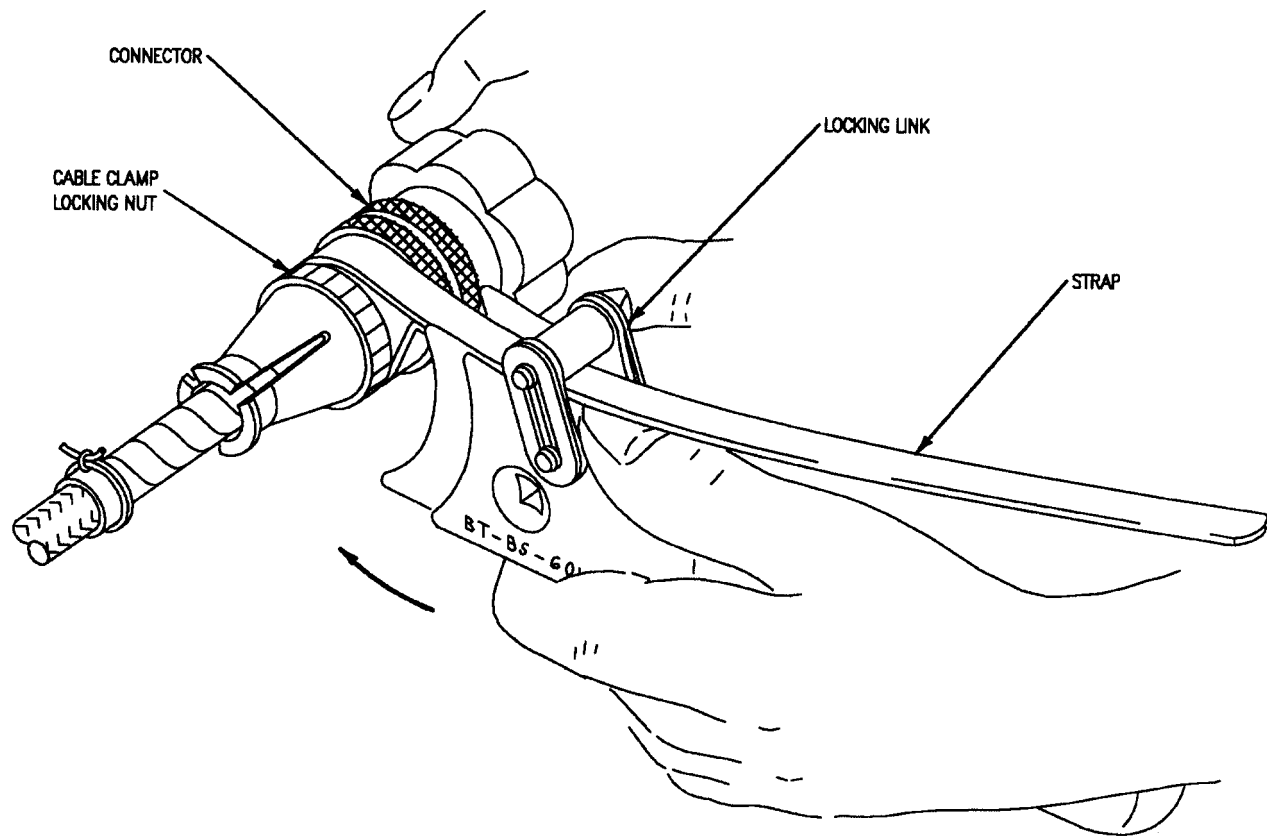


Figure 4. Tightening Position of Wrench

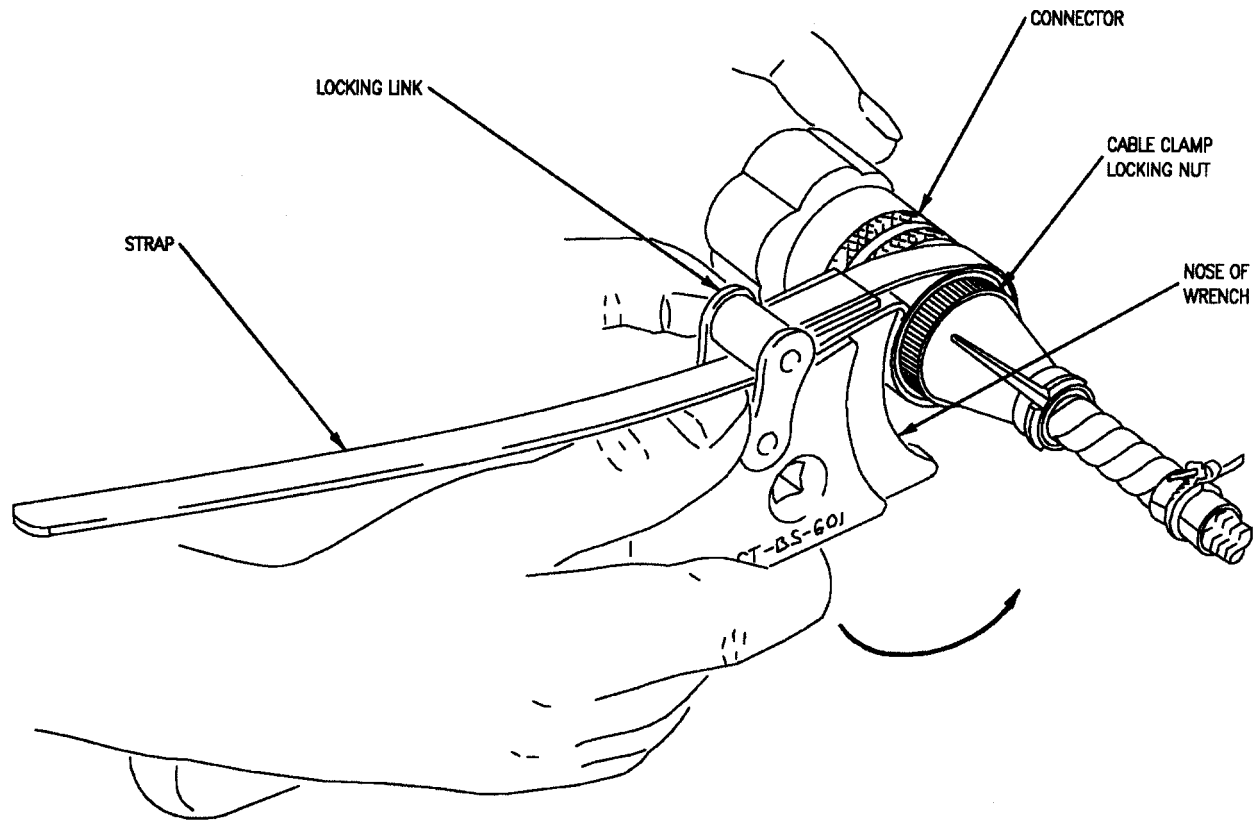


Figure 5. Loosening Position of Wrench

090005

9. To disassemble plastic cable clamp from connector, do substeps below:



When cutting boot material with a sharp tool, be careful not to nick or scrape the wire insulation under the cut.

a. Remove spot ties along with connector band marker and teflon barrier tape from expandable sleeve. See figure 6. Save connector band marker for reassembly of boot area.

b. Grasp the free end of expandable sleeving and push to telescope the sleeving back over itself. See figure 7.

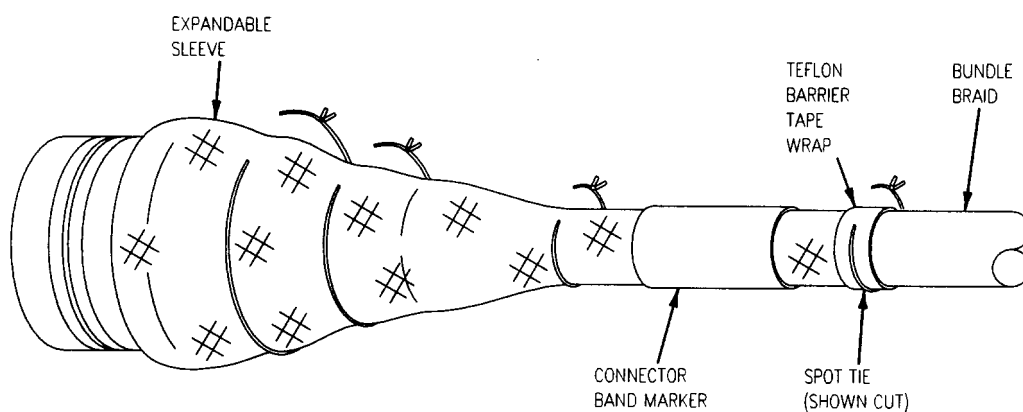


Figure 6. Spot Tie Removal

090006

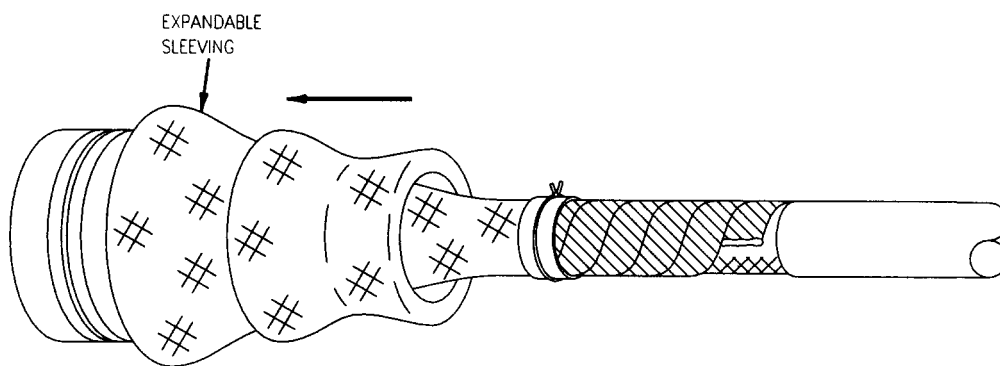


Figure 7. Position Expandable Sleeving for Removal

090007

c. Remove spot ties and teflon barrier tape from expandable sleeve. Slide expandable sleeve off connector. See figure 8.



Do not cut off the buckle to loosen mini band.

d. Remove the three to four wraps of teflon barrier tape from mini band. Remove mini band by straightening the rolled over tab using pliers or diagonal cutters. Slide tab through the buckle. See figure 9.

e. Remove spot tie along with teflon barrier tape and tedlar tape from the wire mesh tape wrap. See figure 10.

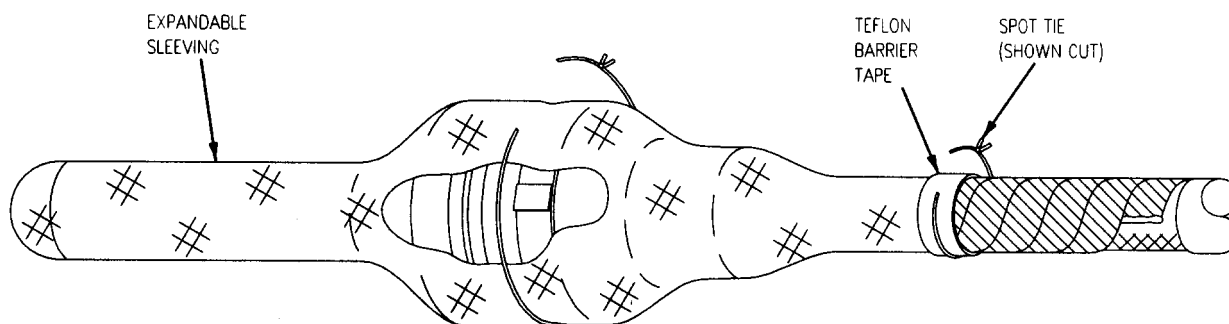


Figure 8. Expandable Sleeve Removal

090008

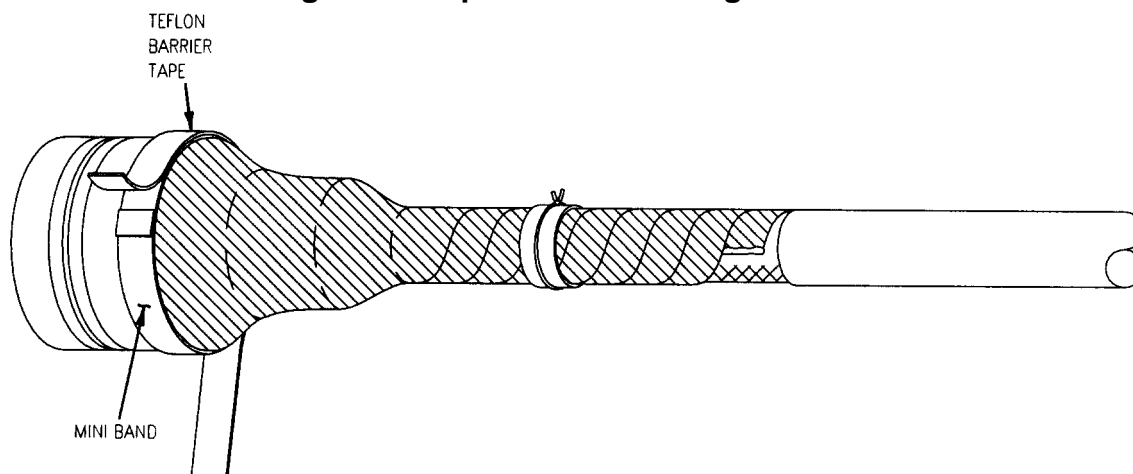


Figure 9. Mini Band Removal From Wire Mesh Tape

090009

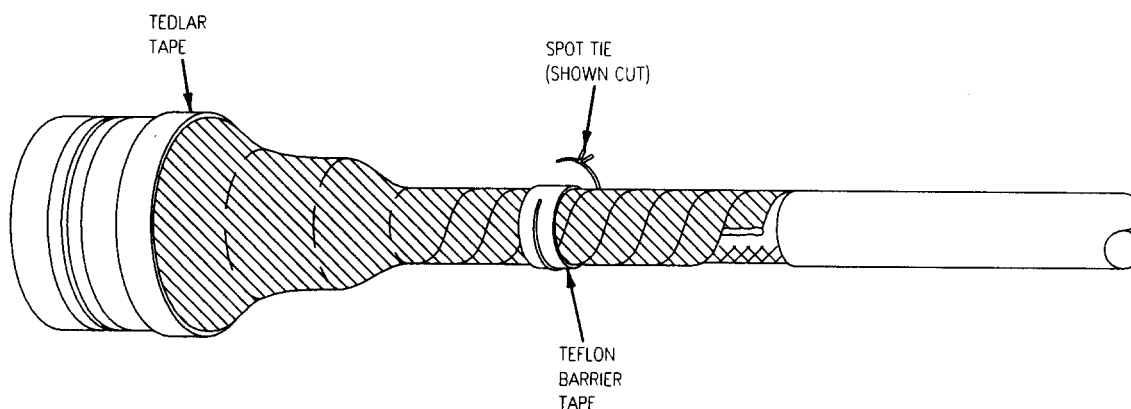


Figure 10. Spot Tie and Tape Removal From Wire Mesh Tape

090010

f. Unwrap wire mesh tape and remove the three to four wraps of teflon barrier tape from mini band. See figure 11.



Do not cut off the buckle to loosen mini band.

g. Remove mini band by straightening the rolled over tab using pliers or diagonal cutters. Slide tab through the buckle. See figure 12.

h. Remove cable clamp and cable clamp locking nut from connector. If required, use strap wrench and CM adapter tool to loosen cable clamp locking nut. See figure 5.

i. Slide cable clamp locking nut and cable clamp onto cable assembly. See figure 13.

j. Cut or unwrap reinforced silicone rubber tape buildup and teflon barrier tape covering boot area. See figure 13.

10. REASSEMBLY PROCEDURES.

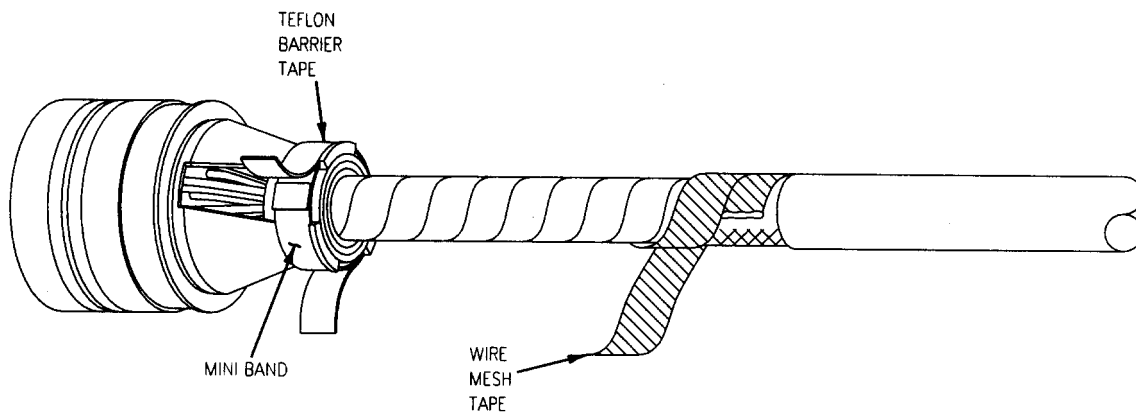


Figure 11. Wire Mesh Tape Removal

090011

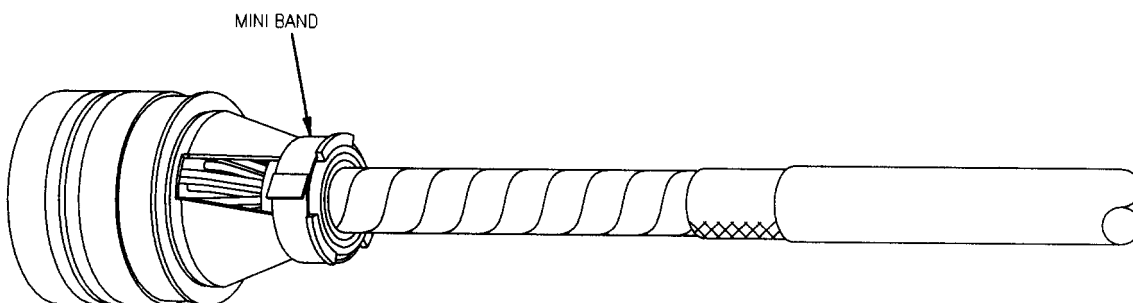
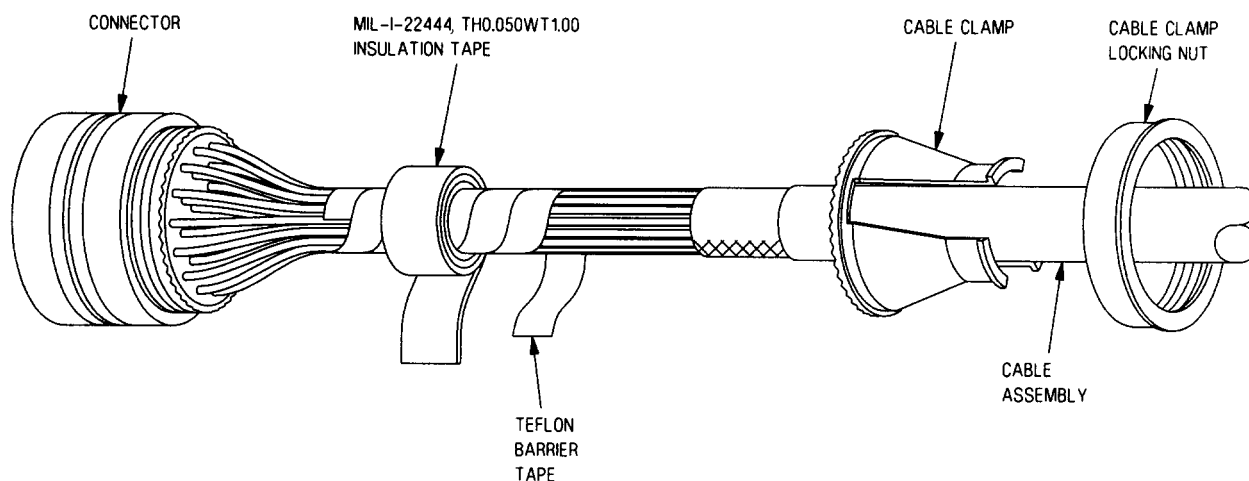


Figure 12. Mini Band Removal from Cable Clamp

090012

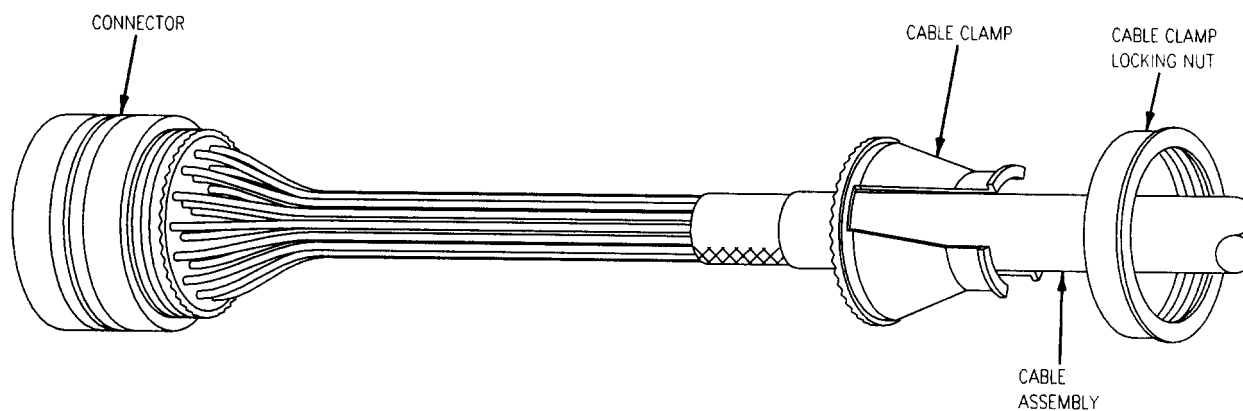
a. Slide cable clamp locking nut and cable clamp onto cable assembly and install connector. See figure 14.

b. Tighten cable clamp locking nut. See figure 15. If required, use strap wrench and CM adapter tool. See figure 4.



090013

Figure 13. Teflon Barrier Tape Removal



090014

Figure 14. Installing EMI Cable Clamp Locking Nut and EMI Cable Clamp on Cable Assembly

c. Position teflon barrier tape immediately in back of cable clamp. Spiral wrap teflon barrier tape using a 50% overlap over exposed wires up to the cable shield. See figure 16.

d. Apply a buildup of reinforced silicone rubber tape around spiral wrapped teflon barrier tape. See figure 17.

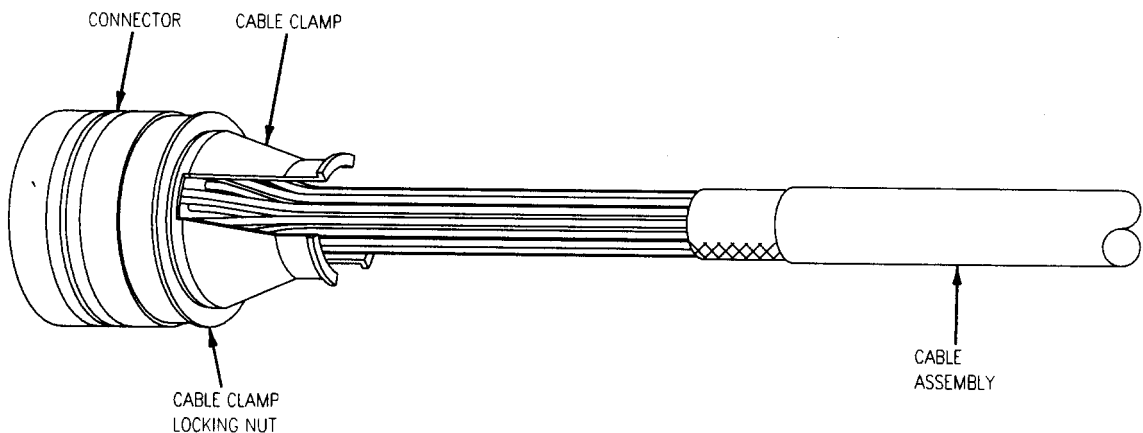


Figure 15. Installing EMI Cable Clamp and EMI Cable Clamp Locking Nut

090015

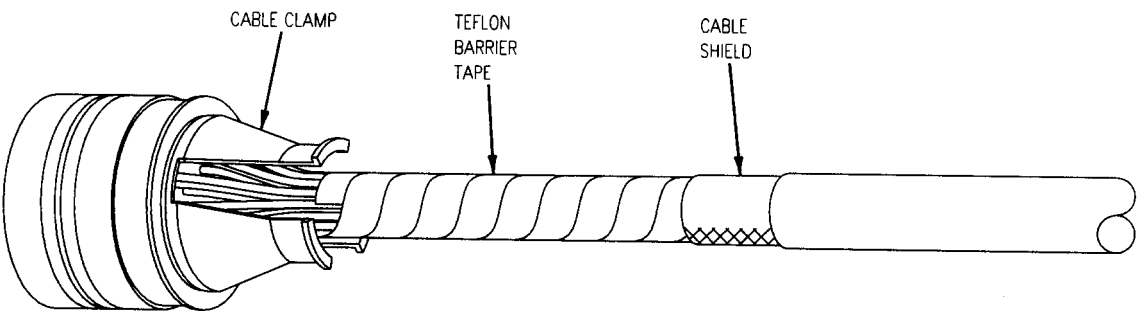


Figure 16. Teflon Barrier Tape Installation

090016

Table 1. Teflon Barrier Tape

PART NUMBER	CAGE	WIDTH (INCH)
62	20999	1/2
TAPE COMES IN ROLLS COLOR - WHITE OR BROWN TEMPERATURE RANGE: -130° TO +500°F		

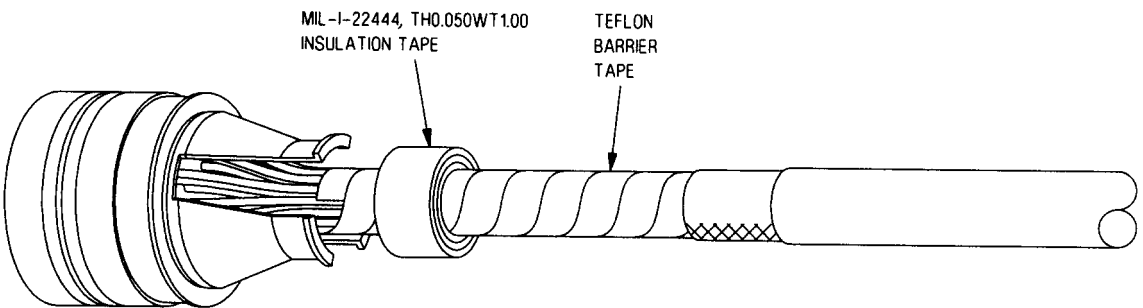


Figure 17. Reinforced Silicone Rubber Tape Installation on EMI Cable Clamp

090017

Table 2. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-5025	07099	1/2
S-80	07099	1/2
REINFORCED WITH FIBERGLASS SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

e. Apply forward pressure to reinforced silicone rubber tape wrap until buildup is under cable clamp fingers. See figure 18.

f. Secure S3175-4 mini band on cable clamp fingers using DBS-1200 termination tool. See figure 19.

g. Wrap three to four turns of teflon barrier tape around mini band to cover any sharp edges. See figure 20.

h. If required, solder wire mesh tape to cable shield. See figure 21.

i. Wrap wire mesh tape with a 50% overlap onto cable clamp locking nut and then cross wrap in the

opposite direction about one to two inches back over the cable clamp fingers. Secure end of wire mesh tape with teflon barrier tape and string tie. See figure 22.

j. Wrap 4 turns of tedlar tape over wire mesh tape that covers the cable clamp locking nut. See figure 22.

k. Secure wire mesh tape to cable clamp locking nut with S3175-4 mini band, using DBS-1200 termination tool. See figure 23.

l. Wrap 3 to 4 turns of teflon barrier tape over mini band to cover any sharp edges.

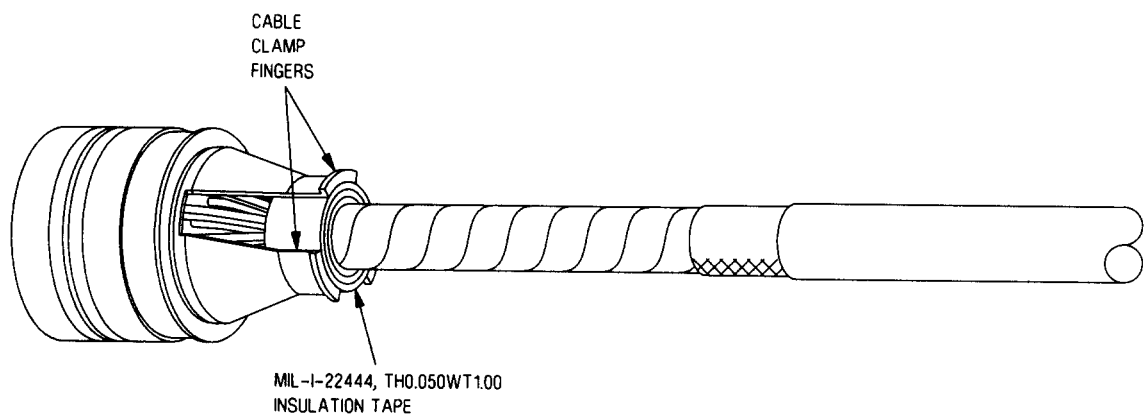


Figure 18. Positioning Reinforced Silicone Rubber Tape Wrap

090018

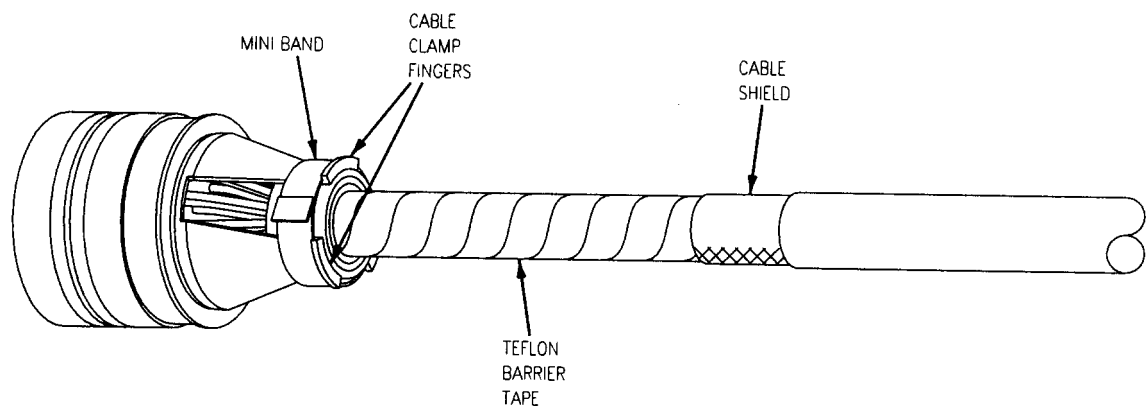


Figure 19. Mini Band Installation To EMI Cable Clamp

090019

Table 3. Mini Band

PART NUMBER	CAGE	WIDTH (INCH)
S3175-4	07418	3/16
TEMPERATURE RANGE: -55° TO +150°C		

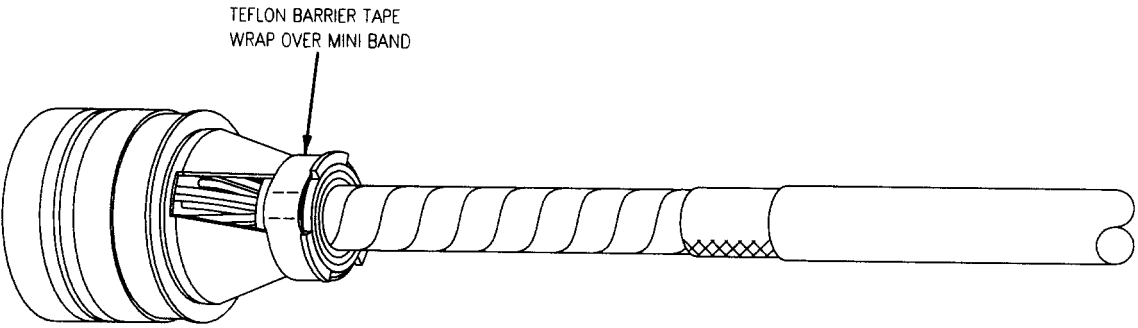


Figure 20. Protective Tape Wrap Over Mini Band

090020

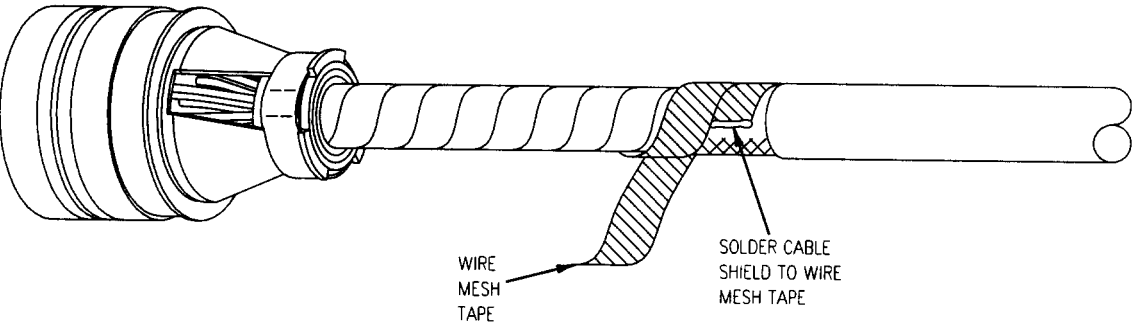


Figure 21. Wire Mesh Tape Installation to Bundle Shield

090021

Table 4. Wire Mesh Tape

PART NUMBER	CAGE	WIDTH (INCH) NOMINAL	THICKNESS (INCH) NOMINAL	WIRE DIAMETER (INCH)
SC 61298	0BKF2	1.000	1/64	17/128 (35 GAGE)
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES TEMPERATURE RANGE: -65° TO +300°F				

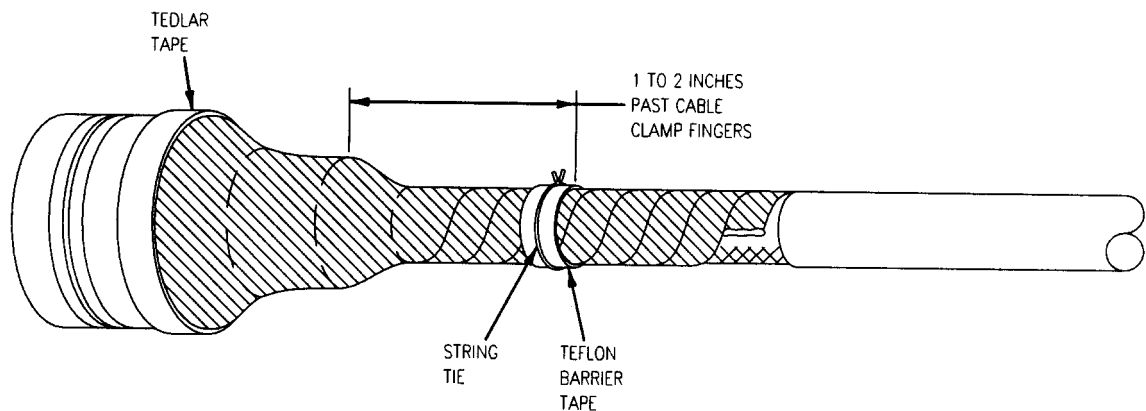


Figure 22. Wire Mesh Tape Wrapping

090022

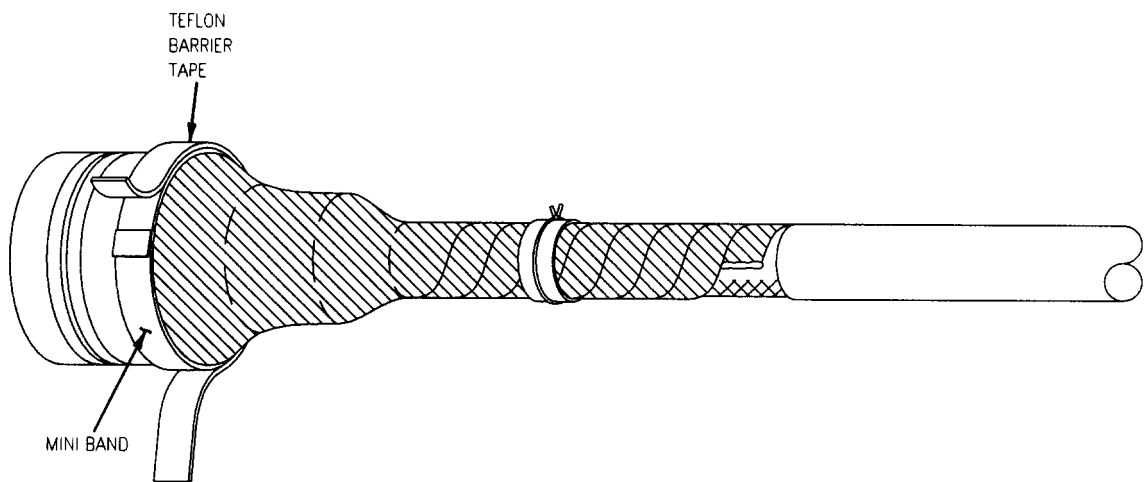


Figure 23. Mini Band Installation Over Wire Mesh Tape

090023

Table 5. Tedlar Tape

PART NUMBER	CAGE	WIDTH (INCH)
B637	85480	1/4
SELF - BONDING TAPE COMES IN ROLLS COLOR - BROWN TEMPERATURE RANGE: -149° TO +275°F		

NOTE

Use the smallest diameter expandable sleeving for the application. See table 6.

m. Slide about 14 inches of expandable sleeving onto and over connector. See figure 24.

n. Locate the gap between the mini band and connector under expandable sleeving. Securely tie the expandable sleeving with size 2 lacing tape at the gap. Verify the coupling ring of connector will rotate freely after tying. See figure 24.

o. Secure other end of expandable sleeving with teflon barrier wrap and size 2 lacing tape. See figure 24.

p. Grasp the free end of expandable sleeving and push to telescope the sleeving back over itself and on cable assembly. See figure 25.

q. Terminate the expandable sleeving so it overlaps onto the cable braid about one inch. See figure 26.

r. Wrap teflon barrier tape around expandable sleeving end, secure in place with size 2 lacing tape. See figure 26.

s. Place connector band marker over expandable sleeving and secure in place with clear teflon tape.

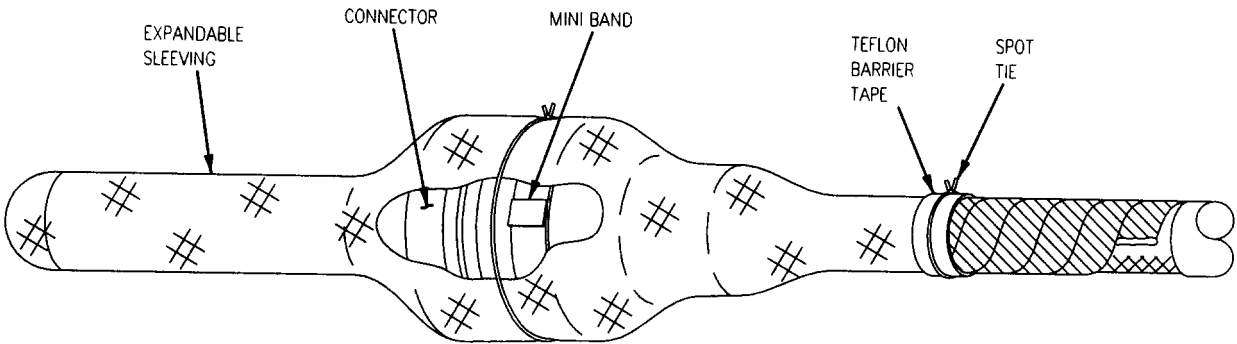


Figure 24. Starting Expandable Sleeving

090024

Table 6. Expandable Sleeving

CAGE 81851		
NOMINAL ID (INCHES)	PART NO.	EXPANDABLE RANGE
1/2	6253001	1/4 - 3/4
3/4	6255001	1/2 - 1 1/4
1 1/4	6262001	3/4 - 1 3/4
1 1/2	6264921	7/8 - 2 1/2
1 3/4	6266001	1 1/4 - 2 3/4
2	6270001	1 1/2 - 3 1/2
TEMPERATURE RANGE: -158° TO +270°F		

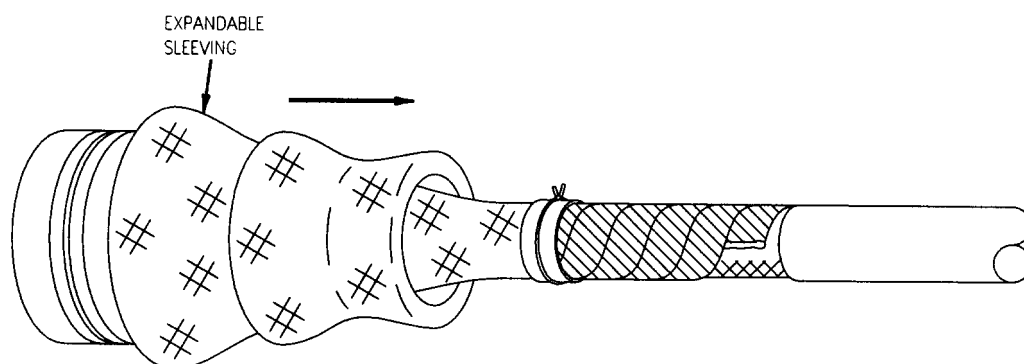


Figure 25. Folding Expandable Sleeving Onto Cable Assembly

090025

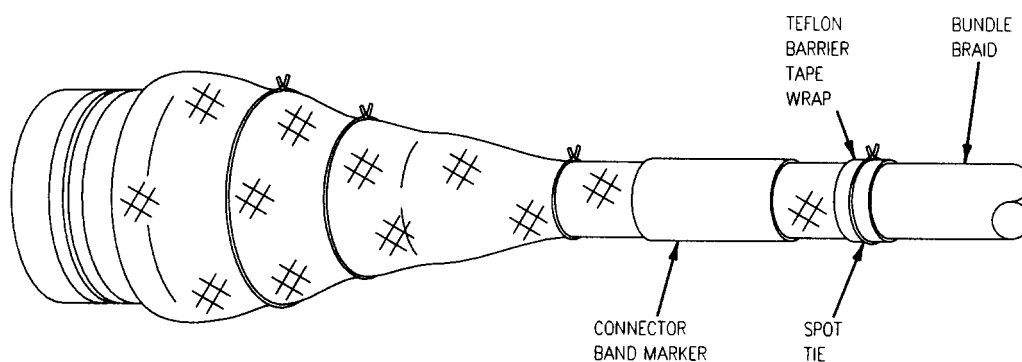


Figure 26. Securing Expandable Sleeving to Cable Assembly

090026

11. BOOT INSTALLATION WITH NON (EMI) APPLICATION.**12. DISASSEMBLY PROCEDURE.**

13. To disassemble mini band from connector, do sub-steps below:

a. Cut and remove spot tie. See figure 27.

b. Remove teflon barrier tape wrap from mini band. See figure 27.



Do not cut off the buckle to loosen mini band.

c. Remove mini band by straightening the rolled over tab using pliers or diagonal cutters. Slide tab through the buckle. See figure 27.

d. Remove cable clamp and cable clamp locking nut from connector. See figure 28. If required, use strap wrench and CM adapter tool to loosen cable clamp locking nut. See figure 5.



Use of sharp tool to cut silicone rubber tape boot from cable assembly can cause wire insulation damage below cut. Be careful not to damage wiring insulation.

e. Cut or unwrap reinforced silicone rubber tape buildup and silicone rubber tape covering boot area. See figure 28.

14. REASSEMBLY PROCEDURE.

a. Slide cable clamp locking nut and cable clamp on cable assembly and install connector. See figure 29.

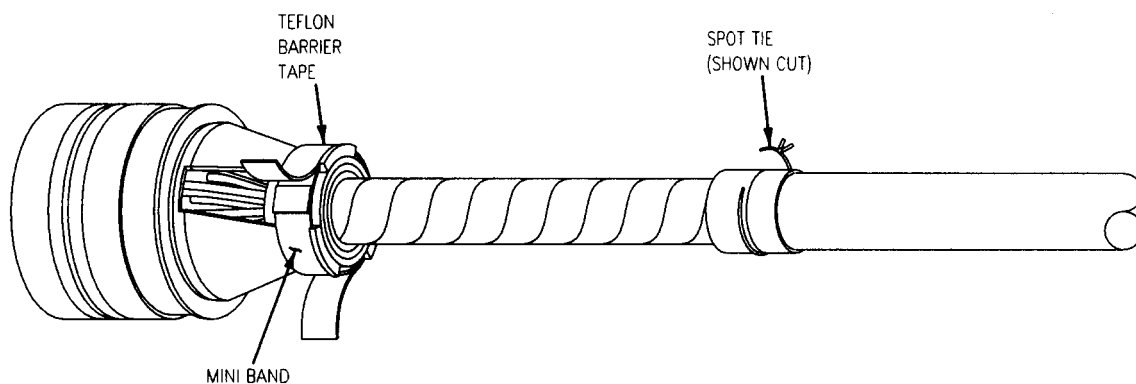


Figure 27. Mini Band Removal From Cable Clamp

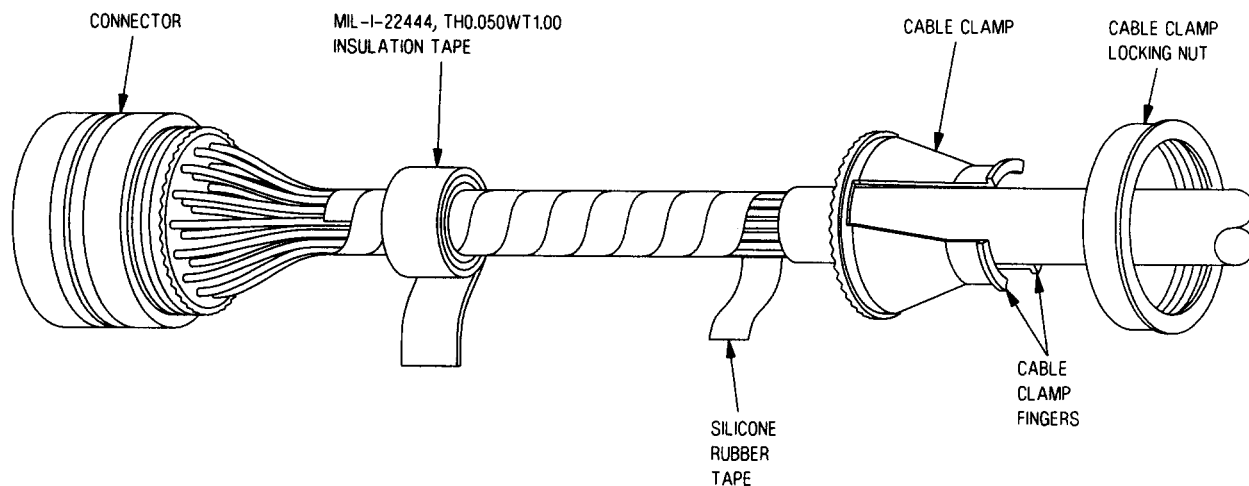
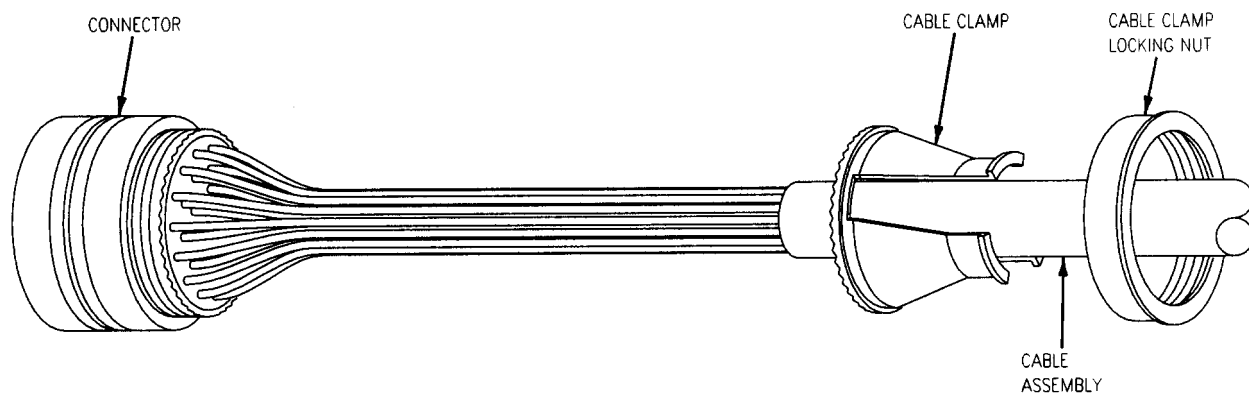


Figure 28. Tape Removal of Boot Area

090028



090029

Figure 29. Installing Cable Clamp Locking Nut and Cable Clamp on Cable Assembly

b. Slide cable clamp and cable clamp locking nut on rear of connector and tighten. See figure 30. If required, use strap wrench and CM adapter tool. See figure 4.

c. Cut silicone rubber tape into a triangular section. See figure 31.

NOTE

For best results when applying silicone rubber tape, hands should be free of dirt and oil.

d. Position trimmed part of silicone rubber tape immediately in back of and parallel to back of cable clamp.

e. Spiral wrap silicone rubber tape two or three turns around exposed wires using 50% overlap. See figure 32.

f. Apply a buildup of reinforced silicone rubber tape (see table 2) around spiral wrapped silicone rubber tape. See figure 33.

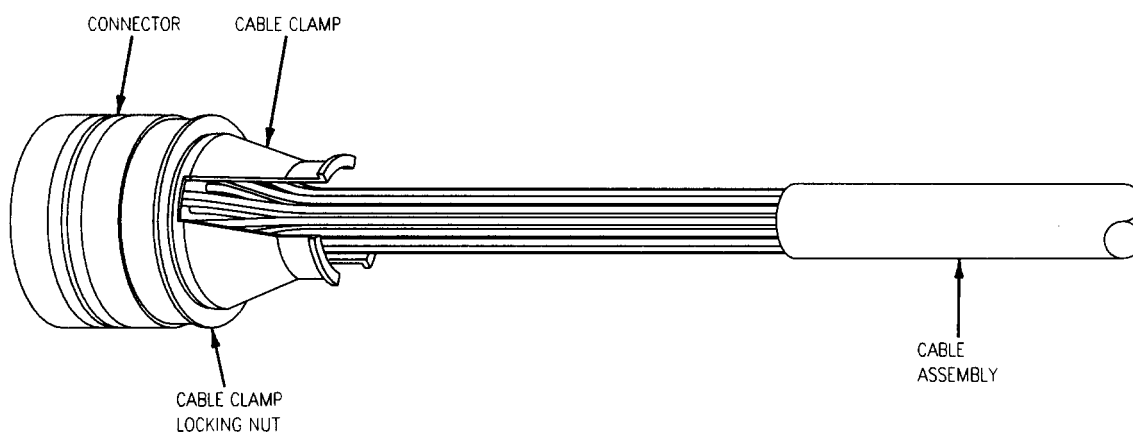


Figure 30. Installing Cable Clamp and Cable Clamp Locking Nut

090030

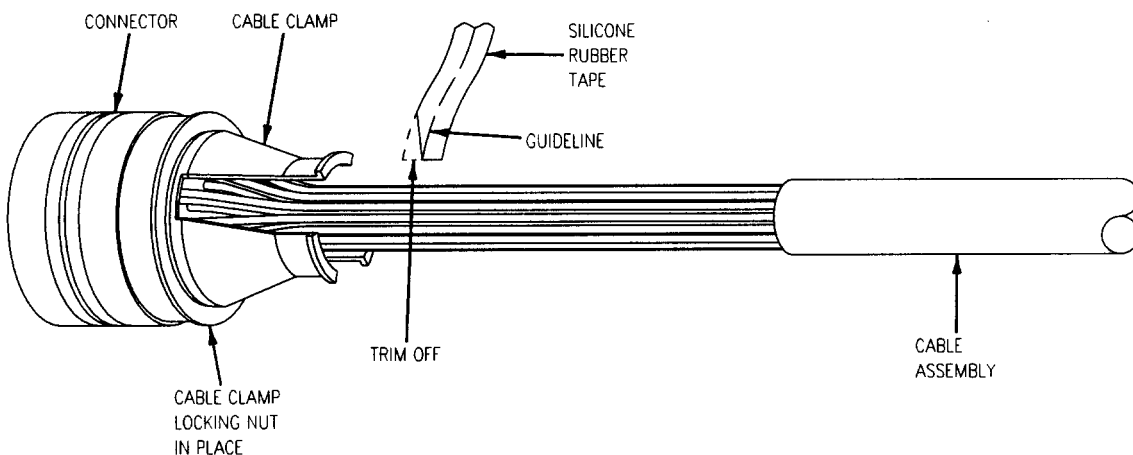


Figure 31. Preparing Silicone Rubber Tape

090031

Table 7. Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
604-1	07099	1
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

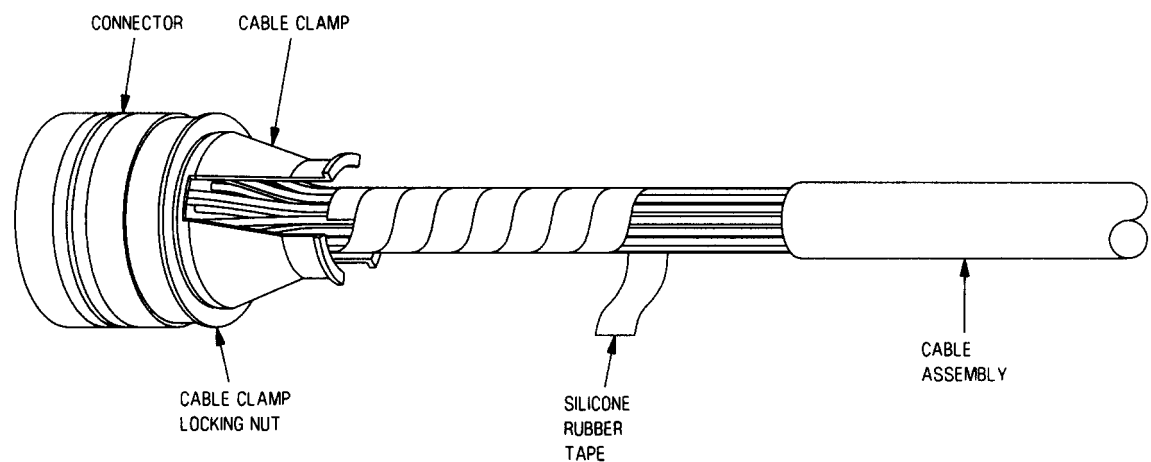


Figure 32. Silicone Rubber Tape Installation

090032

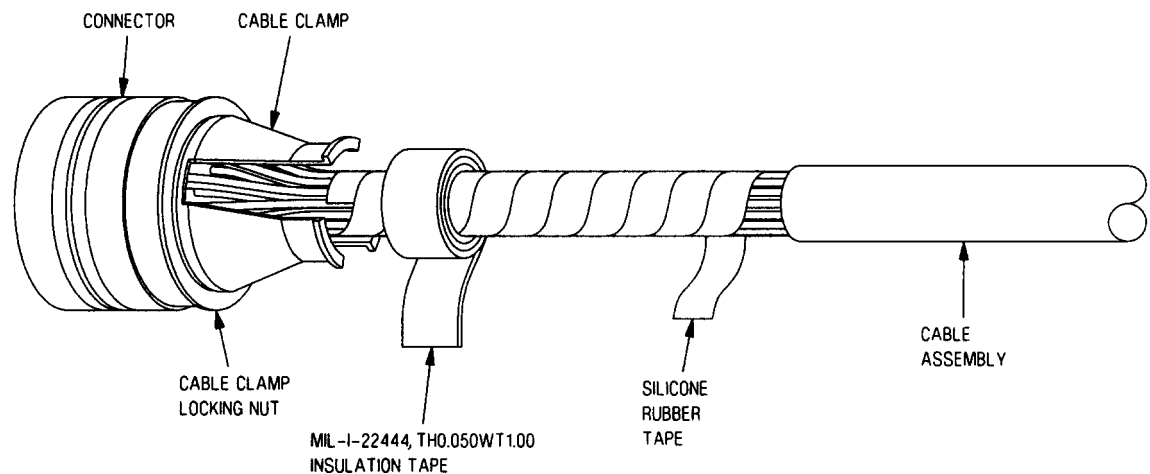


Figure 33. Reinforced Silicone Rubber Tape Installation

090033

CAUTION

To prevent damage to wire terminations, make sure wires are not abnormally stressed.

g. Apply forward pressure to tape buildup and spiral wrap until buildup is under cable clamp fingers. See figure 34.

h. Install S3175-4 mini band (see table 3) on cable clamp using DBS-1200 termination tool. See figure 35.

NOTE

Tape wrapping must follow cable assembly contour with no unnecessary buildup. Follow tape guideline and keep tape firmly stretched.

i. Spiral wrap, using same continuous length of silicone rubber tape, over exposed wire on braided cable jacket using 50% overlap.

j. Overlap silicone rubber tape on braided cable jacket a minimum of 1/2-inch to prevent wiring exposure during cable assembly flexing.

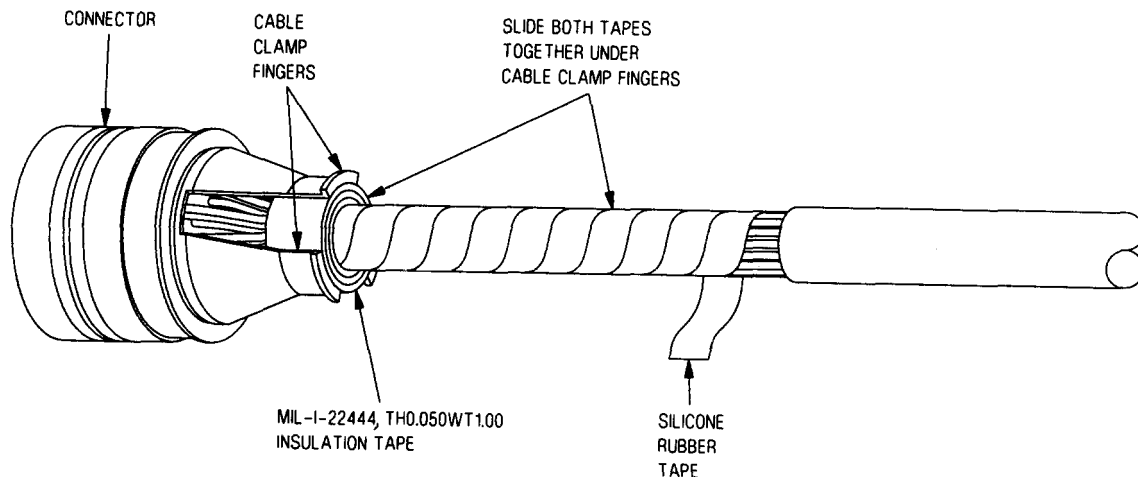


Figure 34. Positioning Tape Buildup and Spiral Wrap

090034

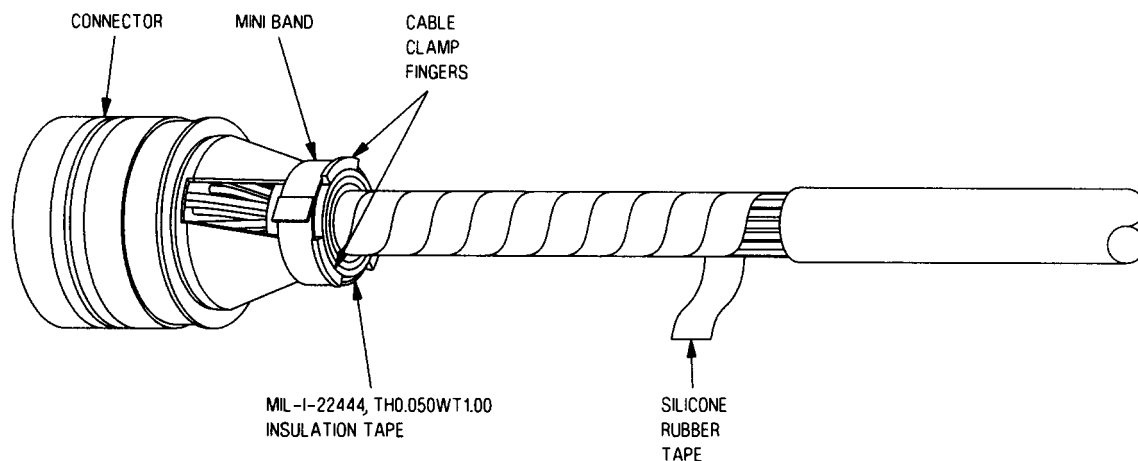


Figure 35. Mini Band Installation to Cable Clamp

090035

NOTE

Do not keep tape stretched while doing next step.

k. Terminate silicone rubber tape by wrapping one full turn around cable assembly. See figure 36.

l. Cut silicone rubber tape and spot tie with lacing tape. See figure 36.

m. Wrap three to four turns of teflon barrier tape (see table 1) around mini band to cover any sharp edges. See figure 36.

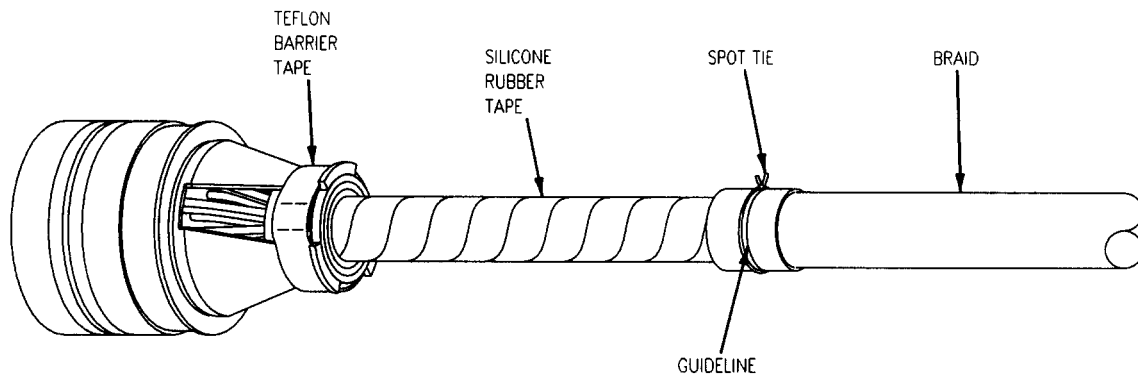
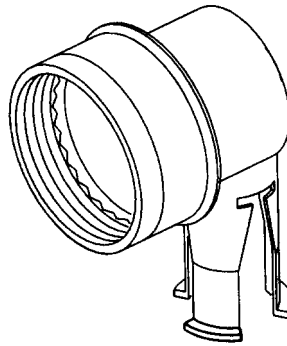


Figure 36. Tape Wrapping of Boot Area

090036



090037

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
28 1J-A153	S3957R16-34	172 00	None
43 1P-A138	S3957R20-34	169 00	CM389L-21
28 1P-A153	S3957R16-34	169 00	CM389L-17
1P-C007	S3957R12-34	169 00	CM389L-13
1P-C022	S3957R12-34	169 00	CM389L-13
1P-C023	S3957R16-34	171 00	CM389S-16
42 1P-C072	S3957R16-34	169 00	CM389L-17
44 1P-C072A	S3957R16-34	169 00	CM389L-17
8 1P-C072B	S3957R16-34	169 00	CM389L-17
36 1P-C145	S3957R12-34	169 00	CM389L-13
1P-D006	S3957R8-34	169 00	CM389L-9
1P-D008	S3957R12-34	169 00	CM389L-13
1P-D024	S3957R16-34	171 00	CM389S-16
43 1P-D035	S3957R16-34	169 00	CM389L-17
44 1P-D035A	S3957R16-34	169 00	CM389L-17
8 1P-D035B	S3957R16-34	169 00	CM389L-17
36 1P-D146	S3957R12-34	169 00	CM389L-13
9 1P-D155	S3957R11-34	168 00	CM389L-11
1P-H004	S3957R14-34	169 00	CM389L-15
17 1P-J137	S3957R8-34	169 00	CM389L-9
10P-J005	S3957R12-34	169 00	CM389L-13
2 10P-L018	S3957R12-34	169 00	CM389L-13
10P-P006A	S3957R10-34	169 00	CM389L-11
10P-P006B	S3957R10-34	169 00	CM389L-11
10P-P008	S3957R10-34	169 00	CM389L-11
10P-R007A	S3957R10-34	169 00	CM389L-11
10P-R007B	S3957R10-34	169 00	CM389L-11
10P-R011	S3957R10-34	169 00	CM389L-11
10P-R012	S3957R8-34	169 00	CM389L-9
36 12P-A004A	S3957R24-34	169 00	CM389L-25
45 12P-D004A	S3957R24-34	169 00	CM389L-25

Figure 37. S3957RXX-34 Backshells (Sheet 1)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
12P-H008	S3957R14-34	169 00	CM389L-15
11 12S-G057	S3957R18-34	None	None
13P-D003	S3957R16-34	169 00	CM389L-17
13P-P004	S3957R8-34	169 00	CM389L-9
17J-J008	S3957R10-34	172 00	CM389L-11
17J-U017	S3957R10-34	172 00	CM389L-11
17J-V018	S3957R10-34	172 00	CM389L-11
19P-J003	S3957R12-34	169 00	CM389L-13
30 2P-M010A	S3957R14-34	169 00	CM389L-15
41 2P-M010B	S3957R14-34	169 00	CM389L-15
13 2P-N010A	S3957R14-34	169 00	CM389L-15
13 2P-N010B	S3957R14-34	169 00	CM389L-15
20J-J003	S3957R10-34	172 00	CM389L-11
22J-C108	S3957R16-34	172 00	CM389L-17
14 22J-E098	S3957R8-34	172 00	CM389L-9
29 22J-K171	S3957R14-34	172 00	CM389L-41
22J-M099	S3957R14-34	172 00	CM389L-15
22P-A088	S3957R8-34	169 00	CM389L-9
22P-A090	S3957R12-34	169 00	CM389L-13
22P-D002A	S3957R16-34	169 00	CM389L-17
22P-D002B	S3957R16-34	169 00	CM389L-17
22P-E004	S3957R10-34	169 00	CM389L-11
10 22P-E098	S3957R8-34	169 00	CM389L-9
22P-H069	S3957R10-34	169 00	CM389L-11
22P-J026	S3957R10-34	169 00	CM389L-11
22P-J068	S3957R10-34	169 00	CM389L-11
1 22P-K102	S3957R8-34	169 00	CM389L-9
2 22P-K114	S3957R10-34	169 00	CM389L-11
15 22P-K170	S3957R12-34	169 00	CM389L-13
15 22P-K171	S3957R10-34	169 00	CM389L-11
2 22P-L102	S3957R8-34	169 00	CM389L-9
2 22P-L113	S3957R10-34	169 00	CM389L-11
30 22P-L170	S3957R12-34	169 00	CM389L-13
22P-M084	S3957R10-34	169 00	CM389L-11
22P-M086	S3957R14-34	169 00	CM389L-15
16 22P-N014	S3957R8-34	169 00	CM389L-9
16 22P-N017	S3957R8-34	169 00	CM389L-9
22P-P005	S3957R8-34	169 00	CM389L-9
22P-R006	S3957R8-34	169 00	CM389L-9
16 22P-R015A	S3957R8-34	169 00	CM389L-9
16 22P-R015B	S3957R8-34	169 00	CM389L-9
16 22P-R016	S3957R8-34	169 00	CM389L-9
22P-S018	S3957R8-34	169 00	CM389L-9
22P-S019	S3957R8-34	169 00	CM389L-9
23P-B002	S3957R10-34	169 00	CM389L-11
28P-A017	S3957R10-34	169 00	CM389L-11

Figure 37. S3957RXX-34 Backshells (Sheet 2)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
28P-B015	S3957R12-34	169 00	CM389L-13
28P-B016	S3957R12-34	169 00	CM389L-13
28P-B018	S3957R10-34	169 00	CM389L-11
3P-E079	S3957R10-34	169 00	CM389L-11
3P-H001	S3957R18-34	169 00	CM389L-19
2 3P-K002	S3957R18-34	169 00	CM389L-19
30 33P-M008	S3957R10-34	169 00	CM389L-11
13 3P-N008	S3957R10-34	169 00	CM389L-11
33P-H011	S3957R12-34	169 00	CM389L-13
2 33P-L016	S3957R10-34	169 00	CM389L-11
27 5J-G024	S3957R16-34	172 00	CM389L-17
5J-P145	S3957R12-34	170 00	BT-J-137
16 5J-R144	S3957R12-34	170 00	BT-J-137
5P-B019	S3957R10-34	169 00	CM389L-11
5P-D009	S3957R8-34	169 00	CM389L-9
31 5P-E035	S3957R10-34	169 00	CM389L-11
2 5P-E053	S3957R12-34	169 00	CM389L-13
5P-F014A	S3957R16-34	169 00	CM389L-17
5P-F014B	S3957R16-34	169 00	CM389L-17
5P-F029	S3957R8-34	169 00	CM389L-9
12 5P-F035	S3957R10-34	169 00	CM389L-11
5P-F116	S3957R10-34	169 00	CM389L-11
5P-H013	S3957R16-34	169 00	CM389L-17
2 5P-K015	S3957R12-34	169 00	CM389L-13
19 5P-M036	S3957R10-34	169 00	CM389L-11
19 5P-N040	S3957R10-34	169 00	CM389L-11
5P-P102	S3957R8-34	169 00	CM389L-9
5P-P136	S3957R10-34	169 00	CM389L-11
5P-P137	S3957R10-34	169 00	CM389L-11
5P-R030	S3957R10-34	169 00	CM389L-11
5P-R031	S3957R10-34	169 00	CM389L-11
5P-R032	S3957R8-34	169 00	CM389L-9
5P-R033	S3957R8-34	169 00	CM389L-9
5P-R034	S3957R8-34	169 00	CM389L-9
5P-R120	S3957R10-34	169 00	CM389L-11
5P-T104	S3957R8-34	169 00	CM389L-9
5P-T106	S3957R10-34	169 00	CM389L-11
52J-B021	S3957R12-34	172 00	CM389L-13
52J-C022	S3957R18-34	172 00	CM389L-19
52J-C051	S3957R20-34	172 00	CM389L-21
2 52J-E154	S3957R10-34	172 00	CM389L-11
52J-F001	S3957R22-34	170 00	BT-J-150
16 52J-F003	S3957R22-34	170 00	BT-J-150
16 52J-F006	S3957R22-34	170 00	BT-J-150
2 52J-H033	S3957R14-34	172 00	CM389L-23

Figure 37. S3957RXX-34 Backshells (Sheet 3)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1 52J-H033	S3957R24-34	172 00	CM389L-25
52J-H039	S3957R24-34	172 00	CM389L-25
52J-H046	S3957R24-34	172 00	CM389L-25
10 52J-H048	S3957R14-34	172 00	CM389L-15
52J-H049	S3957R12-34	172 00	CM389L-13
52J-H073	S3957R16-34	172 00	CM389L-17
52J-H083	S3957R8-34	172 00	CM389L-9
52J-H085	S3957R12-34	170 00	None
25 52J-H088	S3957R10-34	172 00	CM389L-11
52J-J008	S3957R14-34	172 00	CM389L-15
52J-J038	S3957R24-34	172 00	CM389L-25
52J-J074	S3957R16-34	172 00	CM389L-17
52J-J086	S3957R12-34	172 00	CM389L-13
2 52J-K301	S3957R12-34	172 00	CM389L-13
2 52J-K302	S3957R14-34	172 00	CM389L-15
2 52J-K307	S3957R24-34	172 00	CM389L-25
52J-L030	S3957R20-34	172 00	CM389L-21
20 52J-L160	S3957R16-34	172 00	CM389L-17
2 52J-L308	S3957R20-34	172 00	CM389L-21
21 52J-R163	S3957R18-34	172 00	None
21 52J-R164	S3957R24-34	172 00	None
21 52J-R165	S3957R22-34	172 00	None
52P-C057A	S3957R20-34	169 00	CM389L-21
52P-C057B	S3957R16-34	169 00	CM389L-17
52P-C057C	S3957R24-34	169 00	CM389L-25
52P-C057D	S3957R24-34	169 00	CM389L-25
52P-C057E	S3957R24-34	169 00	CM389L-25
52P-C057F	S3957R24-34	169 00	CM389L-25
7 52P-C057G	S3957R22-34	169 00	CM389L-23
52P-C085	S3957R12-34	169 00	CM389L-13
52P-C159A	S3957R20-34	169 00	CM389L-21
52P-C159B	S3957R20-34	169 00	CM389L-21
52P-C159C	S3957R16-34	169 00	CM389L-17
52P-C159D	S3957R16-34	169 00	CM389L-17
52P-C159E	S3957R24-34	169 00	CM389L-25
52P-C159G	S3957R22-34	169 00	CM389L-23
36 52P-C161	S3957R14-34	169 00	CM389L-15
52P-D008	S3957R14-34	169 00	CM389L-15
52P-D024A	S3957R20-34	169 00	CM389L-21
4 52P-D024B	S3957R16-34	169 00	CM389L-17
3 52P-D024B	S3957R20-34	169 00	CM389L-21
52P-D024C	S3957R24-34	169 00	CM389L-25
3 52P-D024D	S3957R16-34	169 00	CM389L-17
4 52P-D024D	S3957R20-34	169 00	CM389L-21
3 52P-D024E	S3957R16-34	169 00	CM389L-17
52P-D038	S3957R24-34	169 00	CM389L-25

Figure 37. S3957RXX-34 Backshells (Sheet 4)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
52P-D086	S3957R12-34	169 00	CM389L-13
52P-D092A	S3957R16-34	169 00	CM389L-17
52P-D092B	S3957R18-34	169 00	CM389L-19
52P-D092C	S3957R14-34	169 00	CM389L-15
52P-E059	S3957R24-34	169 00	CM389L-25
2 52P-E307	S3957R24-34	169 00	CM389L-25
16 52P-F001	S3957R22-34	169 00	CM389L-23
52P-F003	S3957R22-34	169 00	CM389L-23
52P-F006	S3957R22-34	169 00	CM389L-23
52P-F030	S3957R20-34	169 00	CM389L-19
52P-F058A	S3957R24-34	169 00	CM389L-25
52P-F058B	S3957R24-34	169 00	CM389L-25
52P-F058C	S3957R24-34	169 00	CM389L-25
52P-F058D	S3957R24-34	169 00	CM389L-25
52P-F058E	S3957R24-34	169 00	CM389L-25
20 52P-F160	S3957R16-34	169 00	CM389L-17
52P-H077A	S3957R14-34	169 00	CM389L-15
52P-H077B	S3957R12-34	169 00	CM389L-13
52P-H081	S3957R12-34	169 00	CM389L-13
52P-H087	S3957R16-34	169 00	CM389L-17
14 52P-H088	S3957R10-34	169 00	CM389L-11
52P-H089	S3957R10-34	169 00	CM389L-11
52P-H091	S3957R14-34	169 00	CM389L-15
1 52P-H098	S3957R10-34	169 00	CM389L-11
52P-J053	S3957R10-34	169 00	CM389L-11
2 52P-K304	S3957R8-34	169 00	CM389L-9
2 52P-K305	S3957R12-34	169 00	CM389L-13
52P-M069	S3957R14-34	169 00	CM389L-15
52P-M071	S3957R12-34	169 00	CM389L-13
52P-N070	S3957R14-34	169 00	CM389L-15
52P-N072	S3957R12-34	169 00	CM389L-13
52P-N118A	S3957R18-34	169 00	CM389L-19
52P-N118B	S3957R18-34	169 00	CM389L-19
52P-P163	S3957R18-34	169 00	CM389L-19
21 52P-P164	S3957R24-34	169 00	CM389L-25
16 52P-R065	S3957R22-34	169 00	CM389L-23
34 52P-R166	S3957R12-34	169 00	CM389L-13
46 52P-U045C	S3957R24-34	169 00	CM389L-25
46 52P-U045D	S3957R16-34	169 00	CM389L-17
46 52P-V044C	S3957R24-34	169 00	CM389L-25
46 52P-V044D	S3957R16-34	169 00	CM389L-17
61J-P110A	S3957R20-34	172 00	CM389L-21
61J-P110B	S3957R12-34	172 00	CM389L-13
16 61J-R111A	S3957R12-34	172 00	CM389L-13
16 61J-R111B	S3957R14-34	172 00	CM389L-15
61P-A020A	S3957R14-34	169 00	CM389L-15

Figure 37. S3957RXX-34 Backshells (Sheet 5)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
61P-A020B	S3957R14-34	169 00	CM389L-15
61P-A246A	S3957R10-34	169 00	CM389L-11
61P-A246B	S3957R12-34	169 00	CM389L-13
61P-B164	S3957R8-34	169 00	CM389L-11
6 61P-B184	S3957R8-34	169 00	CM389L-9
61P-D033	S3957R14-34	169 00	CM389L-15
61P-F001A	S3957R24-34	169 00	CM389L-25
61P-F001B	S3957R24-34	169 00	CM389L-25
61P-F010A	S3957R10-34	169 00	CM389L-11
61P-F010B	S3957R20-34	169 00	CM389L-19
61P-J022A	S3957R12-34	169 00	CM389L-13
61P-J022B	S3957R14-34	169 00	CM389L-15
18 61P-J022C	S3957R8-34	169 00	CM389L-9
32 61P-J022C	S3957R10-34	169 00	CM389L-11
46 61P-P014A	S3957R22-34	169 00	CM389L-23
46 61P-P014B	S3957R12-34	169 00	CM389L-13
46 61P-P014C	S3957R10-34	169 00	CM389L-11
46 61P-P190	S3957R10-34	169 00	CM389L-11
46 61P-R016A	S3957R22-34	169 00	CM389L-23
46 61P-R016B	S3957R12-34	169 00	CM389L-13
46 61P-R016C	S3957R10-34	169 00	CM389L-11
16 61P-R167	S3957R16-34	169 00	CM389L-17
46 61P-R191	S3957R10-34	169 00	CM389L-11
14 62J-J007	S3957R14-34	172 00	CM389L-15
14 62P-E006A	S3957R20-34	169 00	CM389L-21
14 62P-E006B	S3957R20-34	169 00	CM389L-19
24 62P-E006C	S3957R10-34	169 00	CM389L-11
14 62P-E009K	S3957R10-34	169 00	CM389L-11
14 62P-E009L	S3957R14-34	169 00	CM389L-15
14 62P-J008	S3957R12-34	169 00	CM389L-13
38 62P-L027	S3957R12-34	169 00	CM389L-13
14 62P-S012A	S3957R12-34	169 00	CM389L-13
14 62P-T011A	S3957R12-34	169 00	CM389L-13
65J-P004	S3957R18-34	161 00	CM264-18
65J-R005	S3957R18-34	161 00	CM264-18
5 65P-P001A	S3957R18-34	161 00	CM264-18
22 65P-P001B	S3957R18-34	161 00	CM264-18
5 65P-R002A	S3957R18-34	161 00	CM264-18
22 65P-R002B	S3957R18-34	161 00	CM264-18
66P-F001A	S3957R22-34	169 00	CM389L-23
66P-F001B	S3957R10-34	169 00	CM389L-11
66P-F001C	S3957R16-34	169 00	CM389L-17
66P-F001D	S3957R18-34	169 00	CM389L-19
46 66P-F001E	S3957R17-34	168 00	CM389T-17A
46 66P-F001F	S3957R21-34	168 00	CM389T-21A

Figure 37. S3957RXX-34 Backshells (Sheet 6)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
67P-J002	S3957R14-34	169 00	CM389L-15
68P-E001A	S3957R24-34	169 00	CM389L-25
68P-E001C	S3957R16-34	169 00	CM389L-17
47 68P-E011A	S3957R16-34	169 00	CM389L-25
46 69P-F016	S3957R13-34	168 00	CM389T-13B
2 7P-K032	S3957R14-34	169 00	CM389L-15
1 7P-L032	S3957R14-34	169 00	CM389L-15
70J-B004	S3957R14-34	172 00	CM389L-15
70P-F001A	S3957R14-34	169 00	CM389L-15
70P-F001B	S3957R24-34	169 00	CM389L-25
76P-F001B	10-552682-179	168 00	CM389T-17B
76P-F002B	10-552682-179	168 00	CM389T-17A
76P-F004A	S3957R12-34	169 00	CM389L-13
46 76P-F042E	S3957R17-34	168 00	CM389T-17B
46 76P-F042F	S3957R9-34	168 00	CM389T-9A
46 76P-F042G	S3957R15-34	168 00	CM389T-15A
46 76P-F042H	S3957R15-34	168 00	CM389T-15B
76P-H009A	S3957R24-34	169 00	CM389L-25
76P-H009B	S3957R24-34	169 00	CM389L-23
46 76P-H009D	S3957R20-34	169 00	CM389L-21
2 77P-K001B	10-552682-179	168 00	CM389L-17B
1 77P-L001B	10-552682-179	168 00	CM389L-17B
48 78P-A014	S3957R16-34	169 00	CM389L-17
78P-E001A	S3957R20-34	171 00	CM389S-20
2 78P-L005	S3957R10-34	169 00	CM389L-11
2 8J-L098	S3957R14-34	172 00	None
8P-H052	S3957R8-34	169 00	CM389L-9
2 8P-L097A	S3957R16-34	169 00	CM389L-17
2 8P-L097B	S3957R24-34	169 00	CM389L-25
2 8P-L098	S3957R14-34	169 00	CM389L-15
2 8P-L127	S3957R16-34	169 00	CM389L-17
82P-F001A	S3957R24-34	169 00	CM389L-25
82P-F001C	S3957R24-34	169 00	CM389L-25
46 83J-L018	S3957R12-34	172 00	None
83P-E001A	S3957R24-34	169 00	CM389L-25
83P-E001B	S3957R10-34	169 00	CM389L-11
83P-E001C	S3957R24-34	169 00	CM389L-25
83P-E001D	S3957R14-34	169 00	CM389L-15
83P-E001E	S3957R14-34	169 00	CM389L-15
47 83P-E001H	S3957R13-34	168 00	CM389B-13
47 83P-E001K	S3957R25-34	168 00	CM389B-25
47 83P-E001L	S3957R13-34	168 00	CM389B-13
6 83P-E005	S3957R12-34	169 00	CM389L-13

Figure 37. S3957RXX-34 Backshells (Sheet 7)

Reference Designation to Backshell Data Index (Continued)















REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
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83P-F002B	S3957R10-34	169 00	CM389L-11
83P-F002C	S3957R24-34	169 00	CM389L-25
83P-F002D	S3957R14-34	169 00	CM389L-15
83P-F002E	S3957R14-34	169 00	CM389L-15
 83P-F002H	S3957R13-34	168 00	CM389B-13
 83P-F002K	S3957R25-34	168 00	CM389B-25
 83P-F002L	S3957R13-34	168 00	CM389B-13
83P-F004	S3957R12-34	169 00	CM389L-13
 83P-F015	S3957R10-34	169 00	CM389L-11
 83P-F018	S3957R12-34	169 00	CM389L-13
84J-F042	S3957R24-34	170 00	BT-J-153
84J-F046	S3957R24-34	170 00	BT-J-150
84J-H023	S3957R10-34	172 00	CM389L-11
84J-H024	S3957R10-34	172 00	CM389L-11
 84J-H031	S3957R16-34	172 00	CM389L-17
 84J-H031	S3957R20-34	172 00	CM389L-21
84J-H034	S3957R16-34	172 00	CM389L-17
84J-H092	S3957R12-34	172 00	CM389L-13
 84J-J032	S3957R16-34	172 00	CM389L-17
84J-J033	S3957R16-34	172 00	CM389L-17
 84J-K092	S3957R12-34	172 00	CM389L-13
 84J-K094	S3957R14-34	172 00	CM389L-15
 84J-L095	S3957R14-34	172 00	CM389L-15
 84J-M132	S3957R12-34	170 00	BT-J-137
 84J-M133	S3957R12-34	170 00	BT-J-137
84J-P053	S3957R24-34	170 00	BT-J-153
84J-P055	S3957R20-34	170 00	BT-J-148
84J-P059	S3957R16-34	170 00	BT-J-143
84J-P060	S3957R14-34	170 00	BT-J-140
84J-P067	S3957R14-34	170 00	BT-J-140
84J-R056	S3957R24-34	170 00	BT-J-153
84J-R058	S3957R22-34	170 00	BT-J-150
84J-R064	S3957R14-34	170 00	BT-J-140
84J-R065	S3957R14-34	170 00	BT-J-140
84J-R068	S3957R14-34	170 00	BT-J-140
84P-D012A	S3957R12-34	169 00	CM389L-13
84P-D012B	S3957R12-34	169 00	CM389L-13
84P-D033	S3957R16-34	169 00	CM389L-17
 84P-E094	S3957R14-34	169 00	CM389L-15
84P-F001A	S3957R24-34	169 00	CM389L-25
84P-F001B	S3957R24-34	169 00	CM389L-25
84P-F001D	S3957R24-34	169 00	CM389L-25
84P-F001F	S3957R16-34	169 00	CM389L-17
84P-F001H	S3957R24-34	169 00	CM389L-25

Figure 37. S3957RXX-34 Backshells (Sheet 8)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
84P-F001J	S3957R24-34	169 00	CM389L-25
84P-F001L	S3957R24-34	169 00	CM389L-25
84P-F001P	S3957R16-34	169 00	CM389L-17
84P-F002A	S3957R24-34	169 00	CM389L-25
84P-F002B	S3957R24-34	169 00	CM389L-25
84P-F002D	S3957R24-34	169 00	CM389L-25
84P-F002F	S3957R16-34	169 00	CM389L-17
84P-F002H	S3957R24-34	169 00	CM389L-25
84P-F002J	S3957R24-34	169 00	CM389L-25
84P-F002L	S3957R24-34	169 00	CM389L-25
84P-F002P	S3957R16-34	169 00	CM389L-17
84P-F004A	S3957R12-34	169 00	CM389L-13
84P-F004B	S3957R12-34	169 00	CM389L-13
84P-F005A	S3957R12-34	169 00	CM389L-13
84P-F005B	S3957R12-34	169 00	CM389L-13
84P-F006A	S3957R14-34	169 00	CM389L-15
84P-F006B	S3957R14-34	169 00	CM389L-15
84P-F007A	S3957R14-34	169 00	CM389L-15
84P-F007B	S3957R14-34	169 00	CM389L-15
84P-F042	S3957R24-34	169 00	CM389L-25
84P-F046	S3957R24-34	169 00	CM389L-25
84P-H003A	S3957R14-34	169 00	CM389L-15
84P-H003B	S3957R14-34	169 00	CM389L-15
35 84P-J122A	S3957R12-34	169 00	CM389L-13
35 84P-J122B	S3957R12-34	169 00	CM389L-13
39 84P-M021A	S3957R12-34	169 00	CM389L-13
39 84P-M021B	S3957R12-34	169 00	CM389L-13
84P-M029A	S3957R10-34	169 00	CM389L-11
33 84P-M029B	S3957R10-34	169 00	CM389L-11
33 84P-M029C	S3957R10-34	169 00	CM389L-11
84P-M029D	S3957R10-34	169 00	CM389L-11
84P-M051	S3957R16-34	169 00	CM389L-17
26 84P-M132	S3957R12-34	169 00	CM389L-13
40 84P-M133	S3957R12-34	169 00	CM389L-13
84P-N052	S3957R16-34	169 00	CM389L-17
37 84P-S017A	S3957R12-34	169 00	CM389L-13
37 84P-S017B	S3957R12-34	169 00	CM389L-13
37 84P-T018A	S3957R12-34	169 00	CM389L-13
37 84P-T018B	S3957R12-34	169 00	CM389L-13
84P-T058	S3957R22-34	169 00	CM389L-23
84P-U013C	S3957R12-34	169 00	CM389L-13
84P-U013D	S3957R12-34	169 00	CM389L-13
84P-V014D	S3957R12-34	169 00	CM389L-13
85P-F001A	S3957R24-34	169 00	CM389L-25
85P-F001B	S3957R20-34	169 00	CM389L-19
85P-F007	S3957R14-34	169 00	CM389L-15

Figure 37. S3957RXX-34 Backshells (Sheet 9)

Reference Designation to Backshell Data Index (Continued)

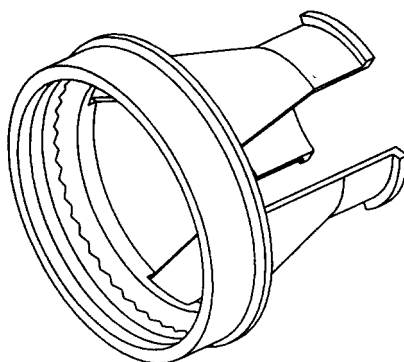
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46 85P-K040B	S3957R13-34	168 00	CM389B-13
85P-N002A	S3957R24-34	169 00	CM389L-25
85P-N002B	S3957R22-34	169 00	CM389L-23
85P-N002C	S3957R22-34	169 00	CM389L-23
85P-N002D	S3957R24-34	169 00	CM389L-25
LEGEND			
1 F/A-18A.			
2 F/A-18B.			
3 161353 THRU 161359.			
4 161360 AND UP.			
5 161522 AND UP.			
6 161353 THRU 161924.			
7 F/A-18A 161702 AND UP; F/A-18B; ALSO F/A-18A 161353 THRU 161528 AFTER F18 AFC 54.			
8 161353 THRU 161528 BEFORE F18 AFC 49.			
9 163119 AND UP.			
10 161353 THRU 161528.			
11 161737 AND UP.			
12 161353 THRU 161519.			
13 F/A-18A 161520 AND UP; F/A-18B 161704 THRU 161947, 162836 AND UP.			
14 161702 AND UP.			
15 F/A-18A 163092 AND UP.			
16 F/A-18A, F/A-18B 161354 THRU 161947, 162836 AND UP.			
17 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 49.			
18 161353 THRU 161924 BEFORE F18 AFC 57.			
19 161359 AND UP.			
20 F/A-18A 161702 AND UP.			
21 162445 AND UP.			
22 161353 THRU 161521.			
23 161353 THRU 161987 BEFORE F18 AFC 48.			
24 161520 AND UP.			
25 161353 THRU 161528 BEFORE F18 AFC 41.			
26 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.			
27 161360 AND UP; ALSO 161353 THRU 161359 AFTER F18 AFC 53.			

Figure 37. S3957RXX-34 Backshells (Sheet 10)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
28	162394 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 49, AND 161702 THRU 161987 AFTER F18 AFC 48.		
29	F/A-18B 163104 AND UP.		
30	161353 THRU 161519 BEFORE F18 AFC 27.		
31	F/A-18A 161520 AND UP, F/A-18B.		
32	161925 AND UP; ALSO 161248 THRU 161924 AFTER F18 AFC 57.		
33	F/A-18A 161353 THRU 161519; ALSO F/A-18B 161354 THRU 161360 BEFORE F18 AFC 27.		
34	162445 AND UP.		
35	161982 AND UP.		
36	162394 AND UP; ALSO 161353 THRU 161987 AFTER F18 AFC 48.		
37	161720 AND UP.		
38	F/A-18B 161704 AND UP.		
39	161520 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 27.		
40	161361 AND UP; ALSO 161353 THRU 161360 AFTER F18 AFC 27.		
41	161353 THRU 161360 BEFORE F18 AFC 27.		
42	161353 THRU 161528 AFTER F18 AFC 49 AND 161702 THRU 161987 BEFORE F18 AFC 48.		
43	161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 49.		
44	161353 THRU 161519 BEFORE F18 AFC 49.		
45	161353 THRU 161987 BEFORE F18 AFC 48.		
46	F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.		
47	161925 AND UP AFTER F/A-18 AFC 231.		
48	F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 292.		

Figure 37. S3957RXX-34 Backshells (Sheet 11)



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Reference Designation to Backshell Data Index
















REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
1P-C005	S3957S8-34	169 00	CM389L-9
 1P-C072	S3957S16-34	169 00	CM389L-17
1P-J084	S3957S12-34	169 00	CM389L-13
10P-P010	S3957S10-34	169 00	CM389L-11
 18J-T014	S3957S8-34	170 00	CM389L-9
2P-P011	S3957S10-34	169 00	CM389L-11
2P-P012	S3957S8-34	169 00	CM389L-9
 20J-L013	S3957S16-34	172 00	CM389L-17
 20J-L014	S3957S8-34	172 00	CM389L-9
 22J-D096	S3957S8-34	172 00	CM389L-9
 22J-F096	S3957S8-34	172 00	CM389L-9
22P-A087	S3957S8-34	169 00	CM389L-9
22P-A089	S3957S8-34	169 00	CM389L-9
 22P-D096	S3957S8-34	169 00	CM389L-9
 22P-E098	S3957S8-34	169 00	CM389L-9
 22P-F096	S3957S8-34	169 00	CM389L-19
22P-M076	S3957S10-34	169 00	CM389L-11
22P-M099	S3957S14-34	169 00	CM389L-15
22P-P012	S3957S8-34	169 00	CM389L-9
 22P-R110	S3957S8-34	169 00	CM389L-9
22P-S023	S3957S8-34	169 00	CM389L-9
23P-B003	S3957S8-34	169 00	CM389L-9
25P-H002	S3957S10-34	169 00	CM389L-11
 25P-K004	S3957S10-34	169 00	CM389L-11
34P-D011	S3957S8-34	169 00	CM389L-9
 5P-E035	S3957S10-34	169 00	CM389L-11
 5P-E053	S3957S12-34	169 00	CM389L-13
5P-H027	S3957S14-34	169 00	CM389L-15
 5P-M036	S3957S10-34	169 00	CM389L-11
 5P-N040	S3957S10-34	169 00	CM389L-11
5P-P069	S3957S10-34	169 00	CM389L-11

Figure 38. S3957SXX-34 Backshells (Sheet 1)

Reference Designation to Backshell Data Index (Continued)















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52J-E011	S3957S22-34	172 00	CM389L-23
52J-G040	S3957S12-34	172 00	CM389L-13
 52J-H032	S3957S20-34	172 00	CM389L-21
 52J-H032	S3957S24-34	172 00	CM389L-25
52J-H034	S3957S24-34	172 00	CM389L-25
 52J-H088	S3957S10-34	172 00	CM389L-11
52J-J028	S3957S24-34	172 00	CM389L-25
52J-J029	S3957S24-34	172 00	CM389L-25
52J-J042	S3957S24-34	172 00	CM389L-25
 52J-L160	S3957S16-34	172 00	CM389L-17
52J-M069	S3957S14-34	172 00	CM389L-15
52J-M071	S3957S12-34	172 00	CM389L-13
52J-N070	S3957S14-34	172 00	CM389L-15
52J-N072	S3957S12-34	172 00	CM389L-13
52J-P035	S3957S12-34	170 00	BT-J-132
52J-P110	S3957S24-34	170 00	BT-J-153
52J-P111	S3957S22-34	170 00	BT-J-150
52J-P117	S3957S16-34	170 00	CM389L-17
52J-P123	S3957S14-34	170 00	BT-J-140
 52J-P166	S3957S12-34	172 00	CM389L-13
 52J-R036	S3957S12-34	170 00	BT-J-137
 52J-R113	S3957S24-34	170 00	BT-J-153
52J-R114	S3957S10-34	170 00	BT-J-128
 52J-R116	S3957S20-34	170 00	BT-J-148
52J-U013	S3957S18-34	172 00	CM389L-19
52J-U015	S3957S18-34	172 00	CM389L-19
52J-U017	S3957S18-34	172 00	CM389L-19
52J-U019	S3957S18-34	172 00	CM389L-19
 52J-U045A	S3957S24-34	172 00	None
52J-V012	S3957S18-34	172 00	CM389L-19
52J-V014	S3957S18-34	172 00	CM389L-19
52J-V016	S3957S18-34	172 00	CM389L-19
52J-V020	S3957S18-34	172 00	CM389L-19
 52J-V044A	S3957S24-34	172 00	None
52P-A034	S3957S24-34	169 00	CM389L-25
52P-A046	S3957S24-34	169 00	CM389L-25
52P-B023	S3957S20-34	169 00	CM389L-21
52P-B042	S3957S24-34	169 00	CM389L-25
52P-B156	S3957S8-34	169 00	CM389L-9
 52P-C032	S3957S20-34	169 00	CM389L-21
 52P-C032	S3957S24-34	169 00	CM389L-25
 52P-C033	S3957S14-34	169 00	CM389L-15
 52P-C033	S3957S24-34	169 00	CM389L-25

Figure 38. S3957SXX-34 Backshells (Sheet 2)

Reference Designation to Backshell Data Index (Continued)






















REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
52P-C039	S3957S24-34	169 00	CM389L-25
52P-C159F	S3957S16-34	169 00	CM389L-17
 52P-D026A	S3957S16-34	169 00	CM389L-17
 52P-D026A	S3957S20-34	169 00	CM389L-21
 52P-D026B	S3957S16-34	169 00	CM389L-17
 52P-D026B	S3957S20-34	169 00	CM389L-21
52P-D026C	S3957S24-34	169 00	CM389L-25
52P-D026D	S3957S14-34	169 00	CM389L-15
52P-D028	S3957S24-34	169 00	CM389L-25
52P-D029	S3957S24-34	169 00	CM389L-25
52P-E007	S3957S24-34	169 00	CM389L-25
52P-E011	S3957S22-34	169 00	CM389L-23
 52P-E059	S3957S24-34	169 00	CM389L-1
 52P-F160	S3957S16-34	169 00	CM389L-17
 52P-F308	S3957S20-34	169 00	CM389L-19
 52P-H075	S3957S14-34	169 00	CM389L-15
52P-H079	S3957S12-34	169 00	CM389L-13
52P-H083	S3957S8-34	169 00	CM389L-9
52P-H084	S3957S12-34	169 00	CM389L-13
 52P-H088	S3957S10-34	169 00	CM389L-11
 52P-H098	S3957S10-34	169 00	CM389L-11
52P-J076	S3957S12-34	169 00	CM389L-13
52P-J078	S3957S16-34	169 00	CM389L-17
52P-J080	S3957S14-34	169 00	CM389L-15
52P-J155	S3957S10-34	169 00	CM389L-11
 52P-K303	S3957S14-34	169 00	CM389L-15
 52P-L154	S3957S10-34	169 00	CM389L-11
 52P-L309	S3957S10-34	169 00	CM389L-11
 52P-P064A	S3957S12-34	169 00	CM389L-13
 52P-P064B	S3957S24-34	169 00	CM389L-25
 52P-P165	S3957S22-34	169 00	CM389L-23
 52P-R066A	S3957S12-34	169 00	CM389L-13
 52P-R066B	S3957S24-34	169 00	CM389L-25
52P-U013	S3957S18-34	169 00	CM389L-19
52P-U015	S3957S18-34	169 00	CM389L-19
52P-U017	S3957S18-34	169 00	CM389L-19
52P-U019	S3957S18-34	169 00	CM389L-19
 52P-U045A	S3957S24-34	169 00	CM389L-25
 52P-U045B	S3957S24-34	169 00	CM389L-25
52P-V012	S3957S18-34	169 00	CM389L-19
52P-V014	S3957S18-34	169 00	CM389L-19
52P-V016	S3957S18-34	169 00	CM389L-19
52P-V020	S3957S18-34	169 00	CM389L-19
 52P-V044A	S3957S24-34	169 00	CM389L-25

Figure 38. S3957SXX-34 Backshells (Sheet 3)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
27 52P-V044B	S3957S24-34	169 00	CM389L-25
60J-A001A	S3957S24-34	172 00	CM389L-25
60J-A001B	S3957S22-34	172 00	CM389L-23
61J-A120	S3957S16-34	172 00	CM389L-17
27 61J-U045	S3957S10-34	170 00	None
27 61J-V044	S3957S10-34	170 00	None
61J-W095A	S3957S24-34	172 00	CM389L-25
61J-W095B	S3957S24-34	172 00	CM389L-23
18 61P-B184	S3957S8-34	169 00	CM389L-9
2 61P-K237	S3957S10-34	169 00	CM389L-11
2 61P-L217	S3957S10-34	169 00	CM389L-11
61P-W209	S3957S10-34	171 00	CM389S-10
10 62J-A030E	S3957S8-34	172 00	CM389L-9
10 62J-B029E	S3957S8-34	172 00	CM389L-9
10 62P-A013A	S3957S12-34	169 00	CM389L-13
10 62P-A030E	S3957S8-34	169 00	CM389L-9
10 62P-B010A	S3957S12-34	169 00	CM389L-13
10 62P-B029E	S3957S8-34	169 00	CM389L-9
10 62P-E009M	S3957S14-34	169 00	CM389L-15
10 64J-E001F	S3957S22-34	172 00	CM389L-23
64P-E001F	S3957S22-34	169 00	CM389L-23
28 68P-E011C	S3957S24-34	169 00	None
27 69J-L016	S3957S13-34	168 00	None
7P-S036A	S3957S14-34	169 00	CM389L-15
7P-T009	S3957S10-34	169 00	CM389L-11
70J-A003	S3957S14-34	172 00	CM389L-15
75J-N001	S3957S10-34	172 00	CM389L-11
27 76P-F041B	S3957S17-34	168 00	CM389T-17A
27 76P-F042B	S3957S17-34	168 00	CM389T-17A
2 76P-K032	S3957S14-34	169 00	CM389L-15
1 78P-K005	S3957S10-34	169 00	CM389L-11
1 79J-L024	S3957S10-34	172 00	CM389L-11
15 79P-E021B	S3957S8-34	171 00	CM389S-8
19 79P-L021B	S3957S8-34	171 00	CM389S-8
8P-J002	S3957S14-34	169 00	CM389L-15
8P-J042	S3957S16-34	169 00	CM389L-17
8P-L001A	S3957S16-34	169 00	CM389L-17
8P-L001B	S3957S24-34	169 00	CM389L-25
2 80P-L016B	S3957S20-34	200 00	None
27 83J-G003	S3957S14-34	172 00	None
27 83J-H023	S3957S16-34	172 00	None
18 83P-E005	S3957S12-34	169 00	CM389L-13
27 83P-F022	S3957S10-34	169 00	CM389L-11
23 84J-C026B	S3957S12-34	172 00	CM389L-13
23 84J-C026C	S3957S12-34	172 00	CM389L-13

Figure 38. S3957SXX-34 Backshells (Sheet 4)

Reference Designation to Backshell Data Index (Continued)

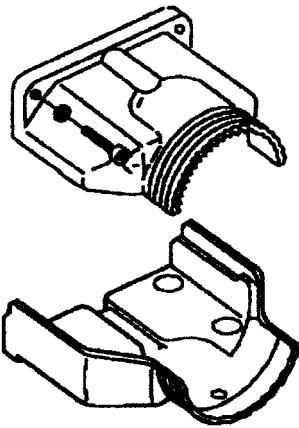
REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
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84J-E044	S3957S24-34	172 00	CM389L-25
1 84J-E045	S3957S24-34	172 00	CM389L-25
84J-E048	S3957S24-34	172 00	CM389L-25
1 84J-F043	S3957S24-34	172 00	CM389L-25
1 84J-F047	S3957S24-34	172 00	CM389L-25
20 84J-H092	S3957S12-34	172 00	CM389L-13
84J-J025A	S3957S12-34	172 00	CM389L-13
84J-J025B	S3957S12-34	172 00	CM389L-13
2 84J-J032	S3957S20-34	172 00	CM389L-17
84J-J093	S3957S12-34	172 00	CM389L-13
23 84J-J122A	S3957S12-34	172 00	CM389L-13
23 84J-J122B	S3957S12-34	172 00	CM389L-13
2 84J-L097A	S3957S12-34	172 00	CM389L-13
2 84J-L097B	S3957S12-34	172 00	CM389L-13
84J-M051	S3957S16-34	172 00	CM389L-17
84J-N052	S3957S16-34	172 00	CM389L-17
2 84J-P041	S3957S24-34	172 00	CM389L-25
2 84J-P045	S3957S24-34	172 00	CM389L-25
84J-P054	S3957S22-34	170 00	BT-J-150
2 84J-R043	S3957S24-34	172 00	CM389L-25
2 84J-R047	S3957S24-34	172 00	CM389L-25
84J-R057	S3957S22-34	170 00	BT-J-150
84J-S063	S3957S10-34	170 00	BT-J-132
84J-U049	S3957S14-34	170 00	BT-J-140
84J-V050	S3957S14-34	170 00	BT-J-140
7 84P-C026	S3957S12-34	169 00	CM389L-13
1 84P-C031	S3957S16-34	169 00	CM389L-17
2 84P-C031	S3957S20-34	169 00	CM389L-19
84P-C034	S3957S16-34	169 00	CM389L-17
1 84P-C092	S3957S12-34	169 00	CM389L-13
1 84P-D032	S3957S16-34	169 00	CM389L-17
2 84P-D032	S3957S20-34	169 00	CM389L-19
84P-D093	S3957S12-34	169 00	CM389L-13
84P-E041	S3957S24-34	169 00	CM389L-25
84P-E044	S3957S24-34	169 00	CM389L-25
84P-E045	S3957S24-34	169 00	CM389L-25
84P-E048	S3957S24-34	169 00	CM389L-25
2 84P-E092	S3957S12-34	169 00	CM389L-13
84P-F043	S3957S24-34	169 00	CM389L-25
84P-F047	S3957S24-34	169 00	CM389L-25
2 84P-F095	S3957S14-34	169 00	CM389L-15
84P-J104	S3957S10-34	169 00	CM389L-11
26 84P-J122A	S3957S12-34	169 00	CM389L-13
26 84P-J-122B	S3957S12-34	169 00	CM389L-13

Figure 38. S3957SXX-34 Backshells (Sheet 5)

Reference Designation to Backshell Data Index (Continued)

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
14 84P-M021A	S3957S12-34	169 00	CM389L-13
9 84P-M021B	S3957S12-34	169 00	CM389L-13
14 84P-M021C	S3957S12-34	169 00	CM389L-13
9 84P-M021D	S3957S12-34	169 00	CM389L-13
23 84P-M029B	S3957S10-34	169 00	CM389L-11
8 84P-M029C	S3957S10-34	169 00	CM389L-11
23 84P-M110A	S3957S12-34	169 00	CM389L-13
13 84P-M110B	S3957S12-34	169 00	CM389L-13
84P-S055	S3957S20-34	169 00	CM389L-21
84P-U013A	S3957S12-34	169 00	CM389L-13
84P-U049	S3957S14-34	169 00	CM389L-15
84P-V014A	S3957S12-34	169 00	CM389L-13
84P-V014C	S3957S12-34	169 00	CM389L-13
84P-V050	S3957S14-34	169 00	CM389L-15
9P-P005	S3957S14-34	169 00	CM389L-15
LEGEND			
1 F/A-18A.			
2 F/A-18B.			
3 161360 AND UP.			
4 161353 THRU 161359.			
5 161353 THRU 161357.			
6 162826 AND UP.			
7 151353 THRU 161519.			
8 161520 AND UP; ALSO F/A-18B 161354 THRU 161360 AFTER F18 AFC 27.			
9 161353 THRU 161360 BEFORE F18 AFC 27.			
10 161702 AND UP.			
11 162394 AND UP; ALSO 161702 THRU 161987 AFTER F18 AFC 48.			
12 F/A-18A 161353, F/A-18B 161354 THRU 161947, 162836 AND UP.			
13 161361 AND UP; ALSO 161353 THRU 161360 AFTER F18 AFC 27.			
14 161353 THRU 161519 BEFORE F18 AFC 27.			
15 F/A-18B 161704 AND UP.			
16 162445 AND UP.			
17 161353 THRU 161715.			
18 161925 AND UP.			
19 F/A-18A 161702 AND UP.			
20 F/A-18A 161353 THRU 162909.			
21 F/A-18A, F/A-18B 161354 THRU 161947, AND 162836 AND UP.			
22 161702 AND UP; ALSO 161353 THRU 161528 AFTER F18 AFC 41.			
23 161520 AND UP; ALSO 161353 THRU 161519 AFTER F18 AFC 27.			
24 161353 THRU 161528.			
25 F/A-18A 161353 THRU 161519 AFTER F18 AFC 39.			
26 161520 THRU 161981.			
27 F/A-18A 162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.			
28 161925 AND UP AFTER F/A-18 AFC 231.			

Figure 38. S3957SXX-34 Backshells (Sheet 6)



090039

Reference Designation to Adapter Data Index



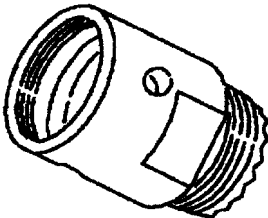
REFERENCE DESIGNATION	ADAPTER	REFERENCE WORK PACKAGE	TOOL NUMBER
 80P-L016B	J1317	200 00	None
LEGEND			
 F/A-18B			

Figure 39. J1317 Adapter



090040

Reference Designation to Adapter Data Index



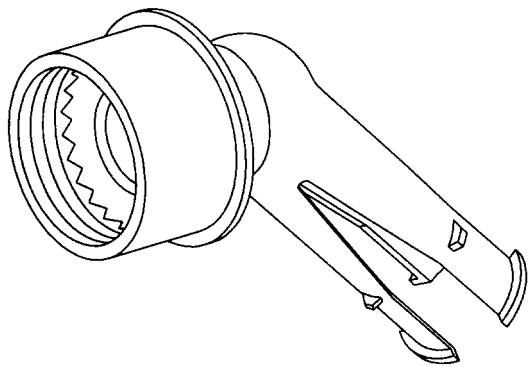
REFERENCE DESIGNATION	ADAPTER	REFERENCE WORK PACKAGE	TOOL CASE TOOL NUMBER
25P-H002	G8682-11NF	169 00	CM389L-11
 25P-K004	G8682-11NF	169 00	CM389L-11
LEGEND			
 F/A-18B			

Figure 40. G8682 Adapter



090041

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	ADAPTER TOOL
76P-F041E	S3957A17-34	168 00	CM389L-17
78P-E016K	S3957A16-34	169 00	CM389L-17
78P-E016M	S3957A14-34	169 00	CM389L-15

Figure 41. S3957AXX-34 Backshells

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

TAPE WRAPPED THERMAL BARRIER PROTECTIVE BOOT INSTALLATION FOR ENVIRONMENTAL
TYPE CONNECTORS WITH MOLDED PLASTIC CABLE CLAMPS

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 225	-	Addition of Mux 4 and 5 (ECP MDC-F/A-18-00529)	1 Sep 02	-
F/A-18 AFC 231	-	Addition of Embedded GPS/INS (ECP MDC-F/A-18-00521)	1 Sep 02	-
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade; Incorporation of (ECP MDA-F/A-18-0560R1)	1 Sep 02	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade; Incorporation of (ECP MDA-F/A-18-0583)	1 Sep 02	-

Reference Designation to Figure
Number Index

Reference Designation	Figure No.
22P-S024	21
22P-S025	22
22P-T022	22
5P-P071 (Adapter)	23
84P-S015A	21
84P-S015B	21
84P-S015C	21
84P-S015D	21
84P-T016A	22
84P-T016B	21
84P-T016C	21
84P-T016D	21

1. DESCRIPTION.

2. This work package describes procedures for installing thermal barrier protective boots on environmental type connectors with molded plastic cable clamp.

Materials Required

Specification or Part Number	Nomenclature
See Table 1	Silicone Rubber Tape
See Table 2	Reinforced Silicone Rubber Tape
See Table 3	Mini Band
See Table 4	Teflon Barrier Tape
See Table 5	Hot Spotz Tape
See Table 6	Insulation Tape
MIL-T-43435, TYPE 4, SIZE-3, FINISH-D	Lacing Tape
SR98	Silicone Varnish

3. PROCEDURE.

4. **CM ADAPTER TOOLS.** CM adapter tools as shown in figure 1 are used to hold connector in place while cable clamp locking nut is being removed. To use CM adapter tool, do substeps below:

- a. Select CM adapter tool by matching CM adapter tool shell size with shell size of connector.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Wire and Connector Repair Set



Spinning CM adapter tool on connector to align keyways causes unnecessary wear to tools, keys and keyways. For correct alignment, align white dot on CM adapter tool with master keyway on connector.

b. Mate adapter tool to CM connector. See figure 2.

5. **STRAP WRENCH.** Strap wrenches are used to loosen or tighten cable clamp locking nuts, backshell adapters, and similar conditions. To use strap wrench, do substeps below:

a. Install strap around part to be loosened or tightened and draw strap tight through locking link so part and strap rest on nose of wrench. See figure 3.

NOTE

For more gripping force on CM adapter tool, use T-handle.

b. To tighten cable clamp locking nut, apply force in a clockwise direction as viewed from rear of connector. Strap and cable clamp locking nut are tucked under nose of wrench and against the flat. See figure 4.

c. To loosen cable clamp locking nut, install strap wrench and turn in a counterclockwise direction as viewed from rear of connector. See figure 5.

6. **DISASSEMBLY PROCEDURE.** To disassemble plastic cable clamp from connector, do substeps below:



When cutting boot material with a sharp tool, be careful not to nick or scrape the wire insulation under the cut.

a. Cut and remove spot tie securing MIL-I-46852, TYPE 2, 1.000 IN., RED insulation tape boot to cable assembly. See figure 6.

b. Unwrap or cut MIL-I-46852, TYPE 2, 1.000 IN., RED insulation tape and remove from boot area. See figure 7.

c. Unwrap or cut hot spotz tape and remove from boot area. See figure 8.

d. Remove teflon barrier tape wrap from mini band. See figure 9.

e. Remove mini band from cable clamp using DBS-1200 termination tool. See figure 9.

f. Remove cable clamp and cable clamp locking nut from connector. See figure 10. If required use

strap wrench and CM adapter tool to loosen cable clamp locking nut. See figure 5.

g. Slide cable clamp locking nut and cable clamp onto cable assembly braid. See figure 10.



Use of a sharp tool to cut silicone rubber tape boot from cable assembly can cause wire insulation damage below cut. Be careful not to damage wiring insulation.

h. Cut or unwrap reinforced silicone rubber tape buildup and silicone rubber tape covering boot area. See figure 10.

7. REASSEMBLY PROCEDURE.

a. Slide cable clamp and cable clamp locking nut on cable assembly and install connector. See figure 11.

b. Slide cable clamp and cable clamp locking nut on rear of connector and tighten. See figure 12. If required, use strap wrench and CM adapter tool. See figure 4.

c. Cut silicone rubber tape into a triangular section. See figure 13.

NOTE

For best results when applying silicone rubber tape, hands should be free of dirt and oil.

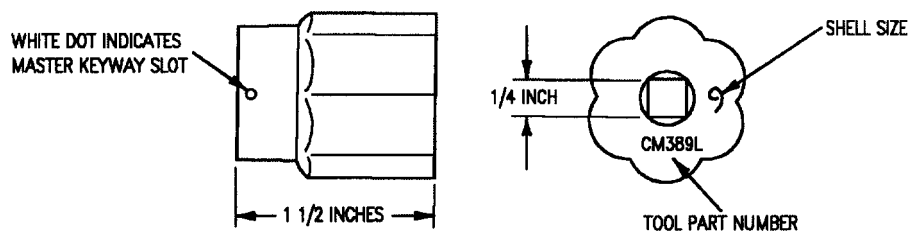
d. Position trimmed part of silicone rubber tape immediately in back of and parallel to back of cable clamp.

e. Spiral wrap silicone rubber tape two or three turns around exposed wires using 50% overlap. See figure 14.

f. Apply a buildup of reinforced silicone rubber tape around spiral wrapped silicone rubber tape. See figure 15.



To prevent damage to wire terminations, make sure wires are not abnormally stressed.



MIL-C-38999 SERIES 1

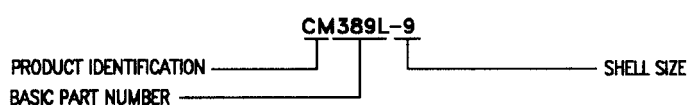


Figure 1. CM Adapter Tool Part Numbering System

091001

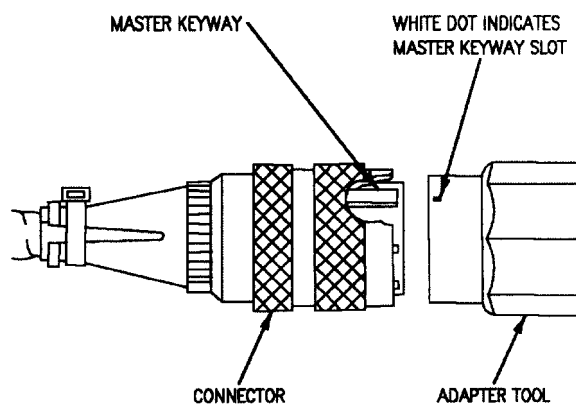


Figure 2. Adapter Tool Mating

091002

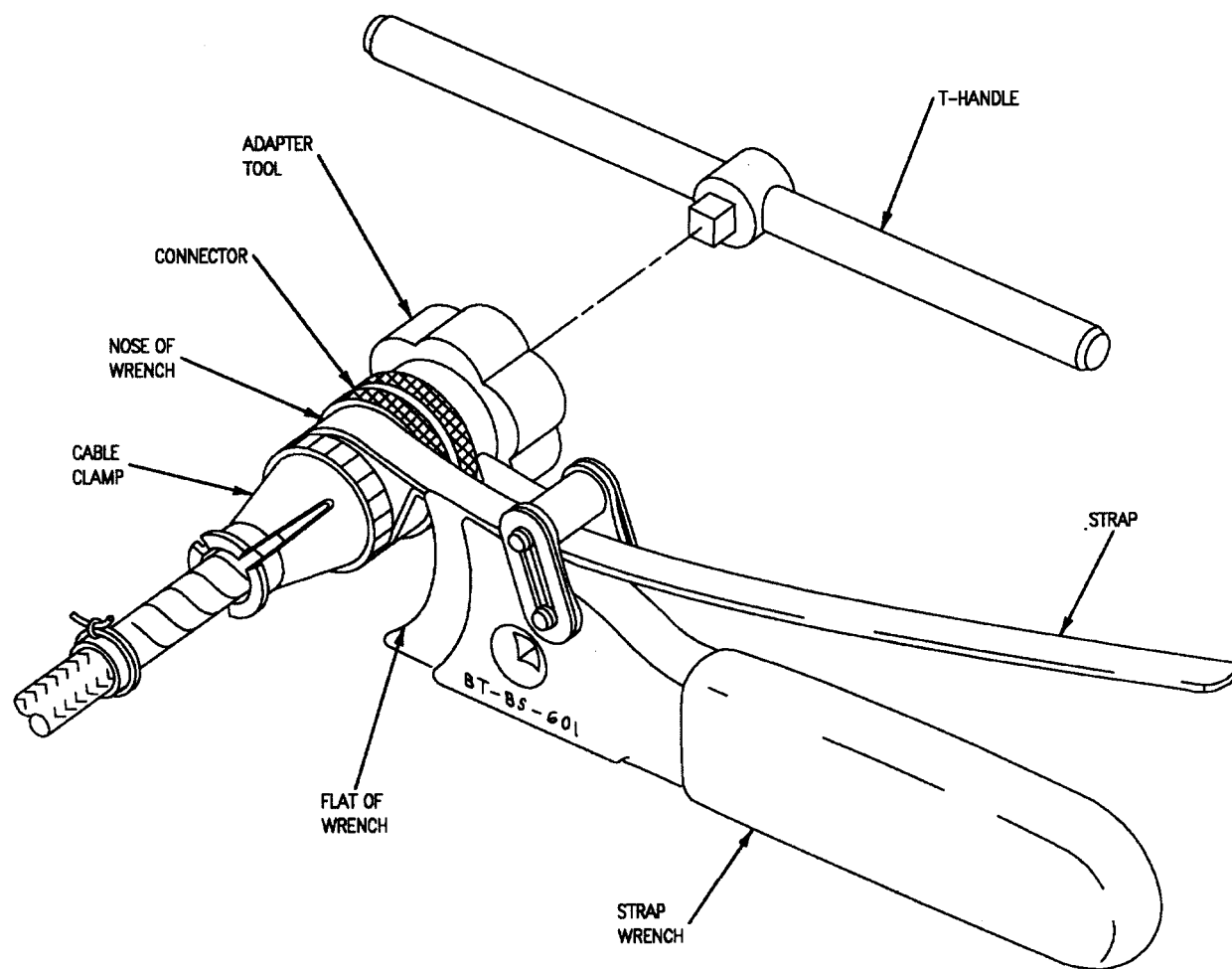


Figure 3. Strap Wrench Setup and Adjustment

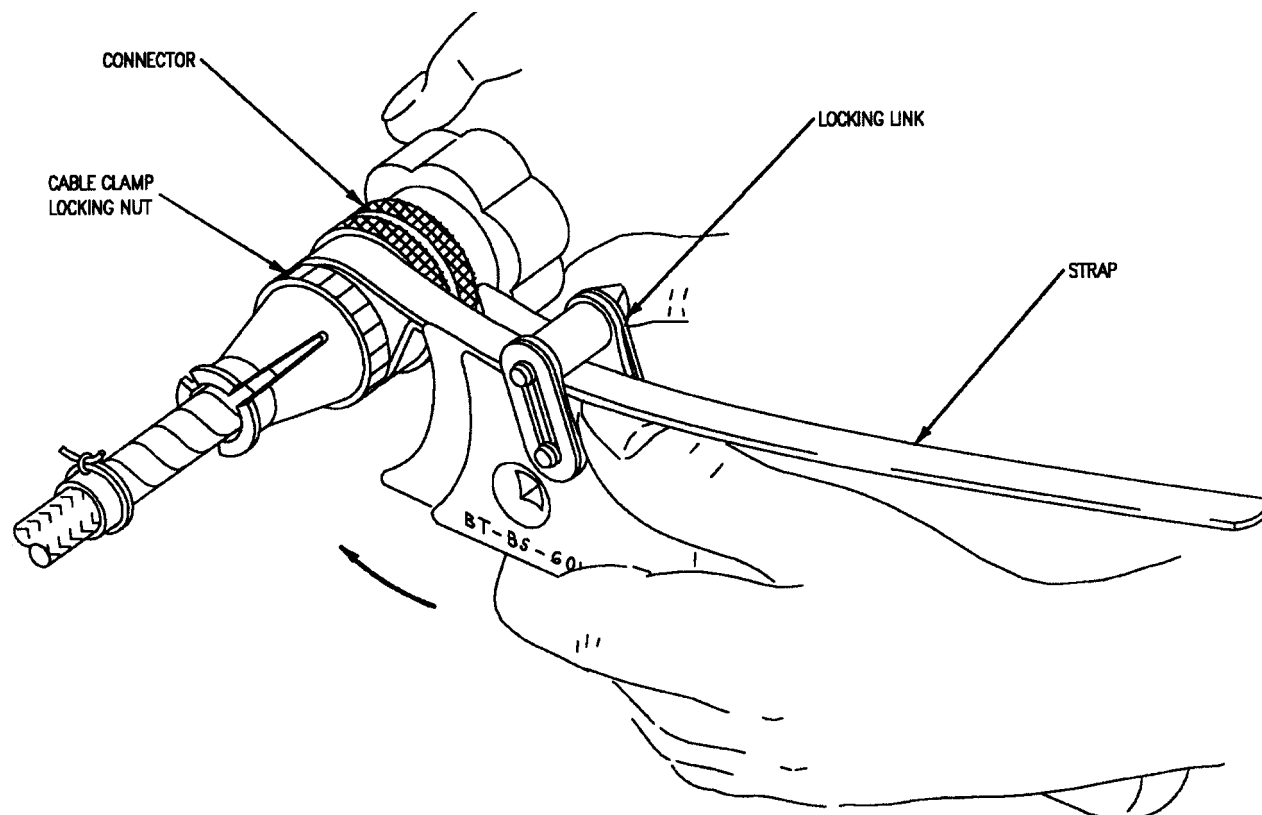


Figure 4. Tightening Position of Wrench

091004

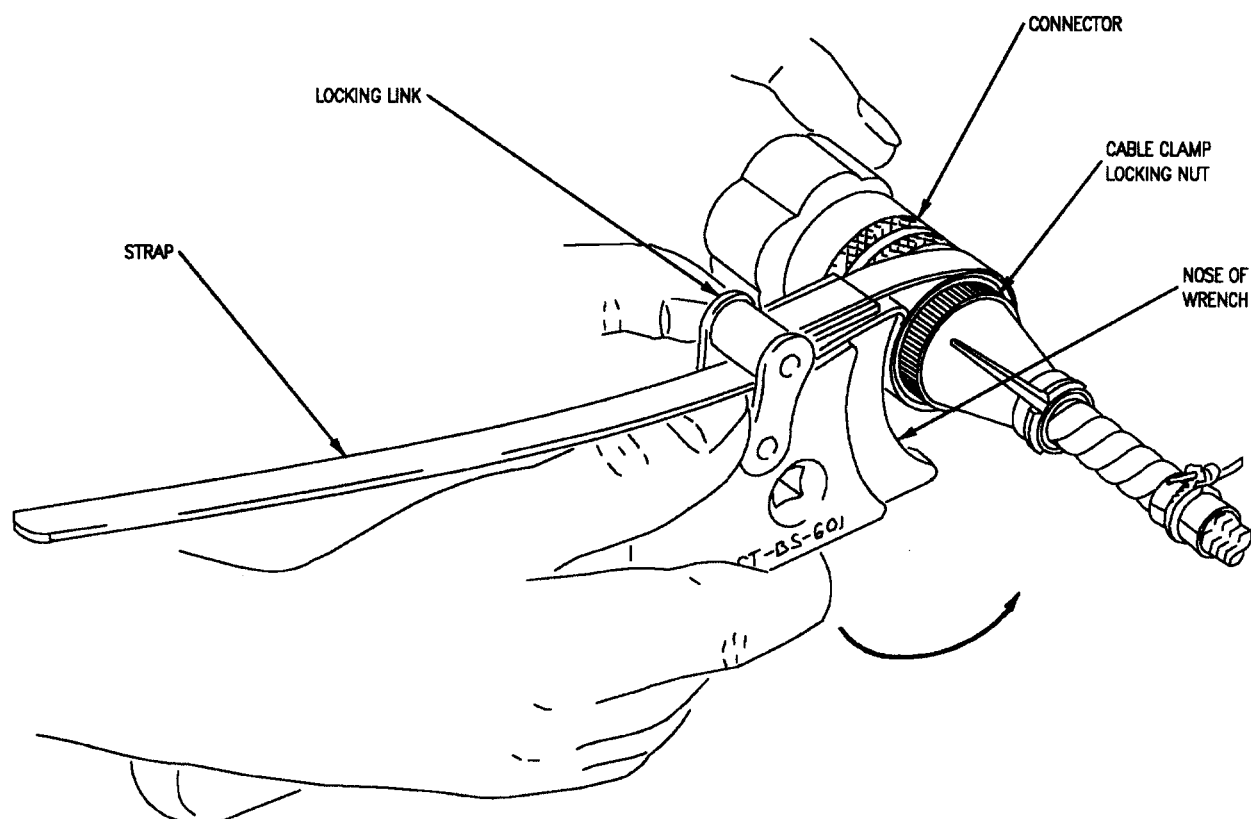
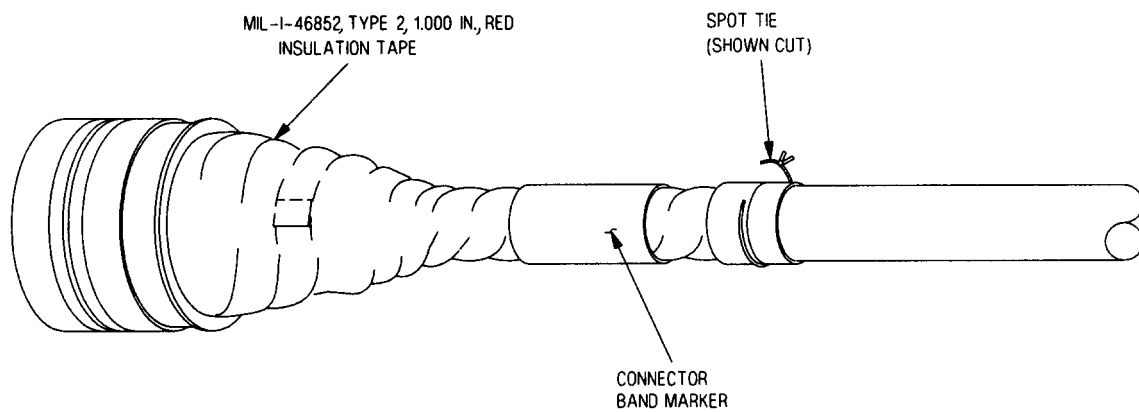


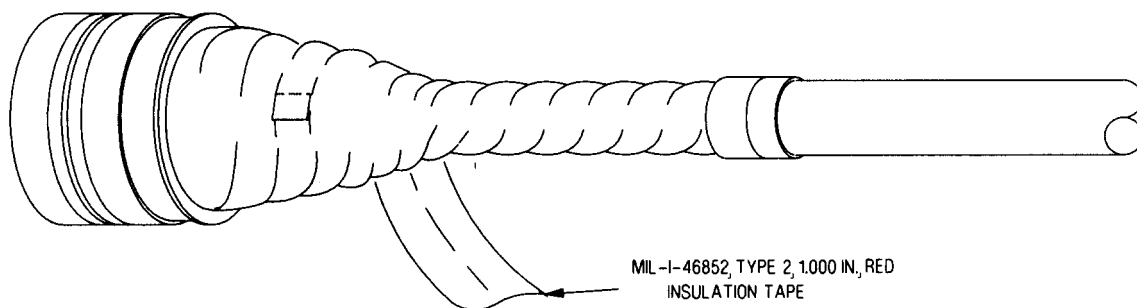
Figure 5. Loosening Position of Wrench

091005



091006

Figure 6. Spot Tie Removal



091007

Figure 7. MIL-I-46852, TYPE 2, 1.000 IN., RED Insulation Tape Boot Removal

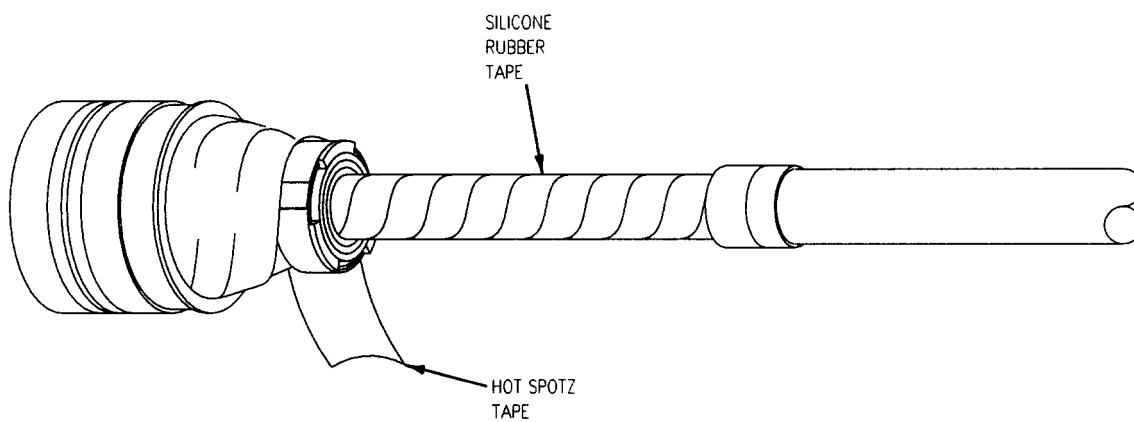


Figure 8. Hot Spotz Tape Removal

091008

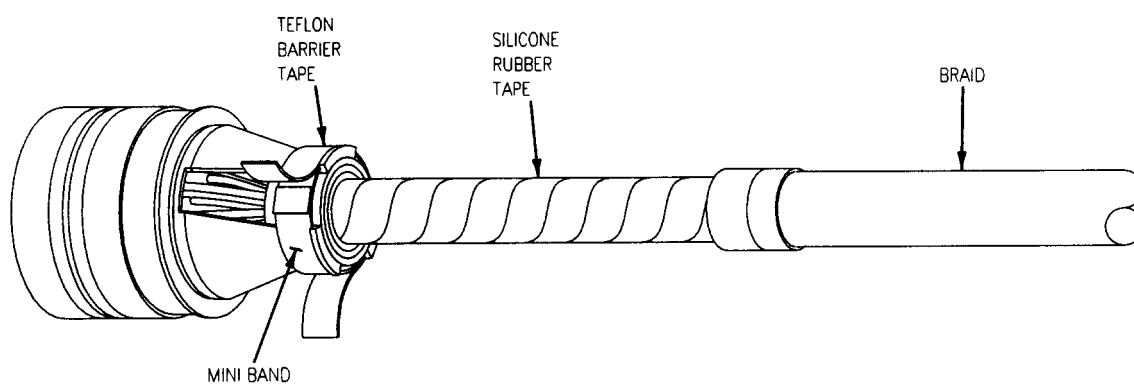


Figure 9. Mini Band Removal

091009

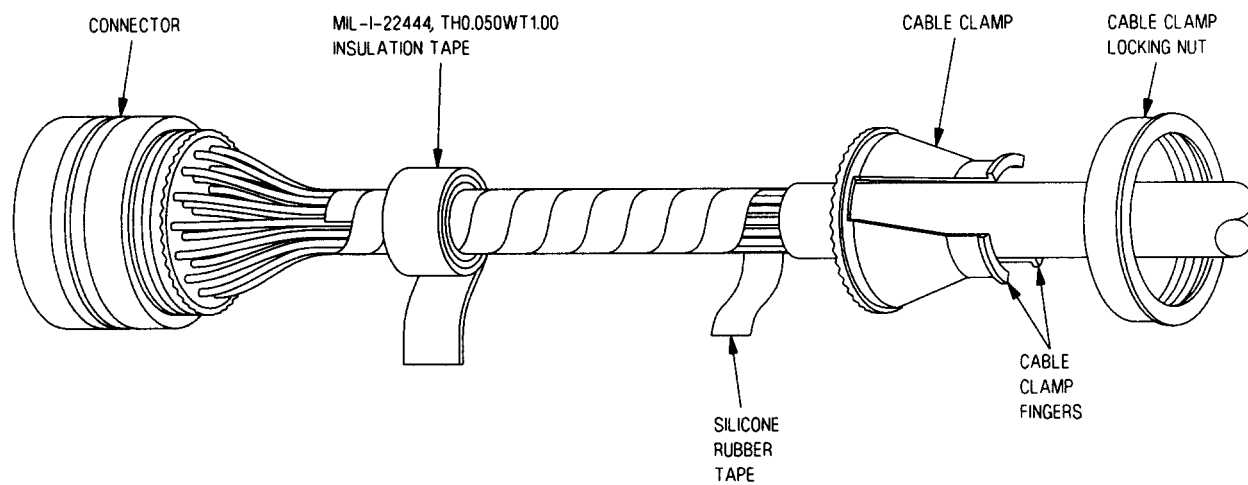
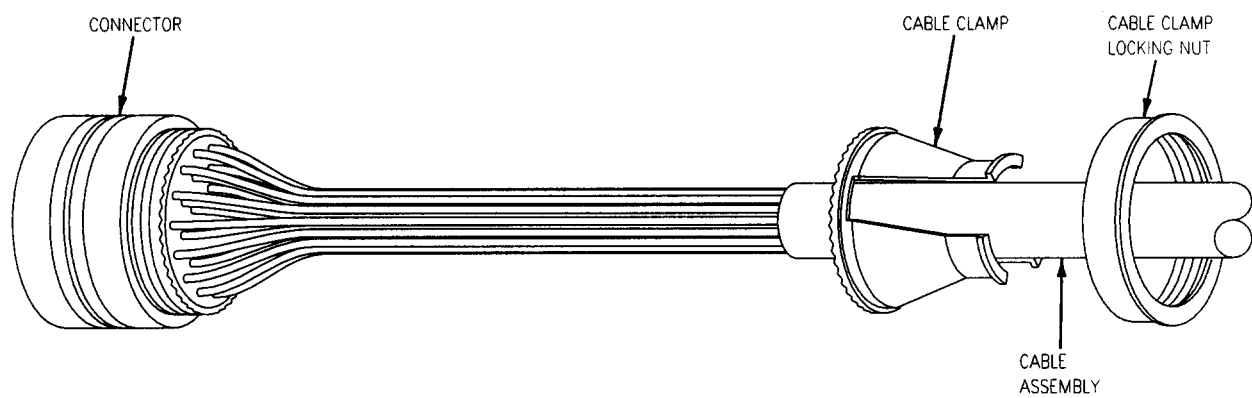


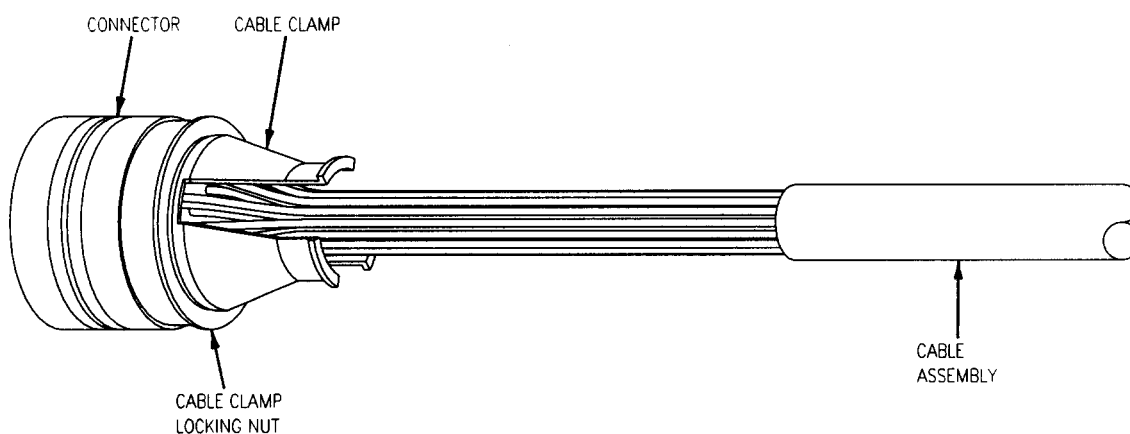
Figure 10. Tape Removal

091010



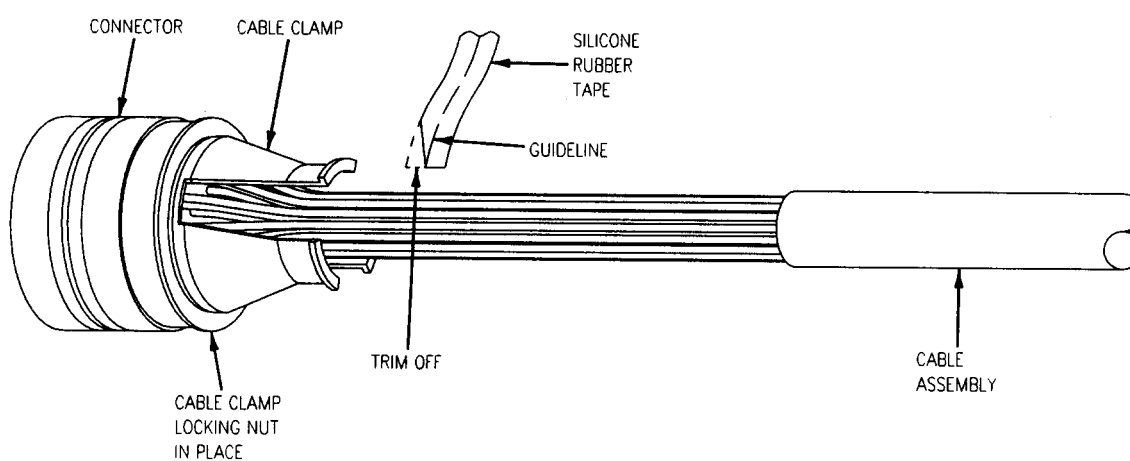
091011

Figure 11. Installing Cable Clamp Locking Nut and Cable Clamp on Cable Assembly



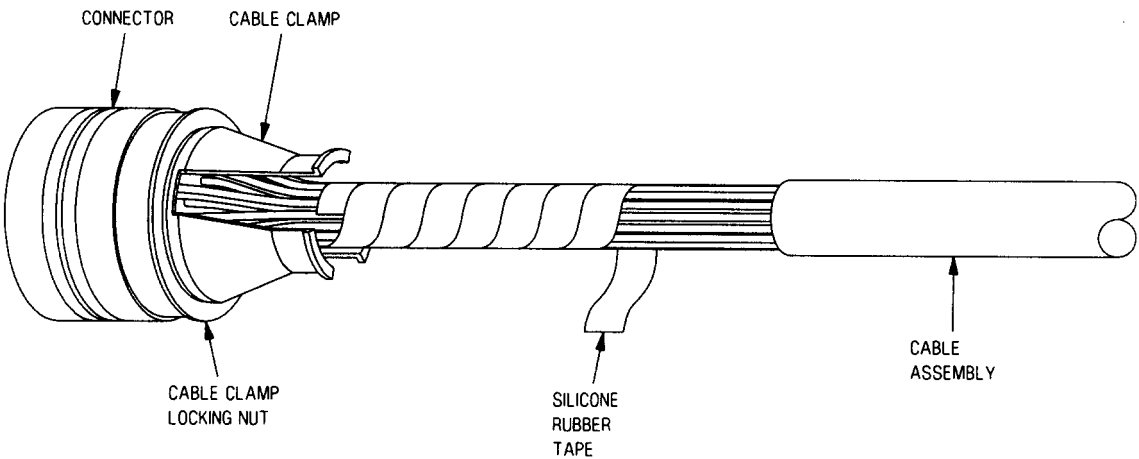
091012

Figure 12. Installing Cable Clamp and Cable Clamp Locking Nut



091013

Figure 13. Preparing Silicone Rubber Tape

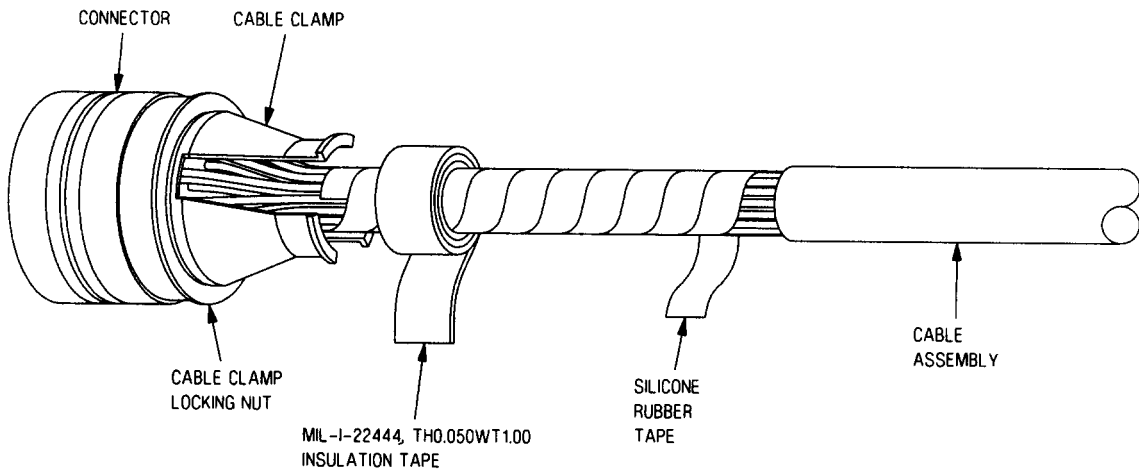


091014

Figure 14. Installing Silicone Rubber Tape

Table 1. Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
604-1	07099	1.000
SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		



091015

Figure 15. Installing Reinforced Silicone Rubber Tape

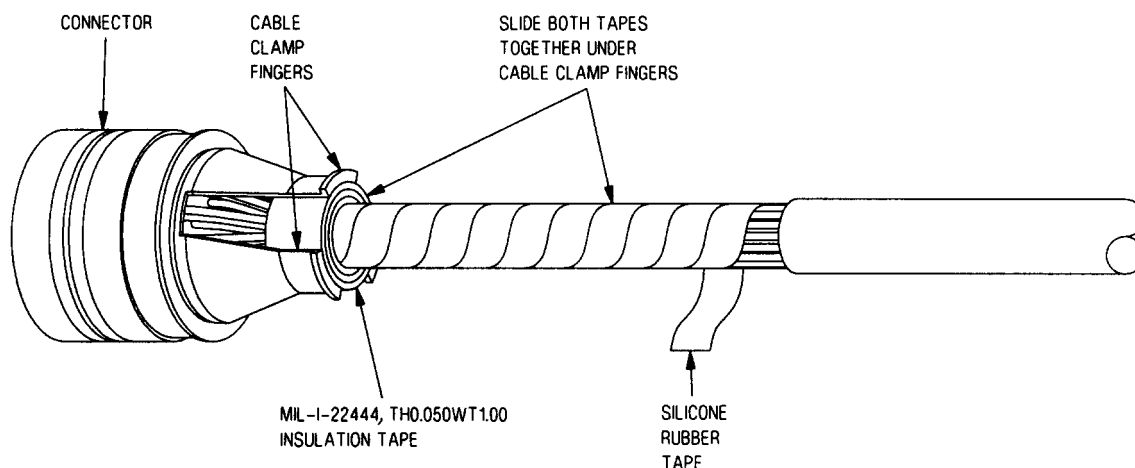


Figure 16. Positioning Tape Buildup and Spiral Wrap

091016

Table 2. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-5025	07099	1/2
S-80	07099	1/2
REINFORCED WITH FIBERGLASS SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		

g. Apply forward pressure to tape buildup and spiral wrap until buildup is under cable clamp fingers. See figure 16.

h. Install S3175-4 mini band on cable clamp using DBS-1200 termination tool. See figure 17.

NOTE

Tape wrapping must follow cable assembly contour with no unnecessary buildup. Follow tape guideline and keep tape firmly stretched.

i. Spiral wrap, using same continuous length of silicone rubber tape, over exposed wire on braided cable jacket using 50% overlap.

j. Overlap silicone rubber tape on braided cable jacket a minimum of 1/2-inch to prevent wiring exposure during cable assembly flexing.

NOTE

Do not keep tape stretched while doing next step.

k. Terminate silicone rubber tape by wrapping one full turn around cable assembly. Keep tape guideline at right angle to cable assembly. See figure 18.

l. Wrap three to four turns of teflon barrier tape around mini band to cover any sharp edges.

m. Wrap hot spotz thermal barrier tape one complete turn around connector backshell, do not cover drain holes. Continue wrapping with a 50% overlap. Wrap back over exposed wiring on cable assembly braid about 1/2 inch. Terminate tape by wrapping one full turn around and perpendicular to cable axis. See figure 19.

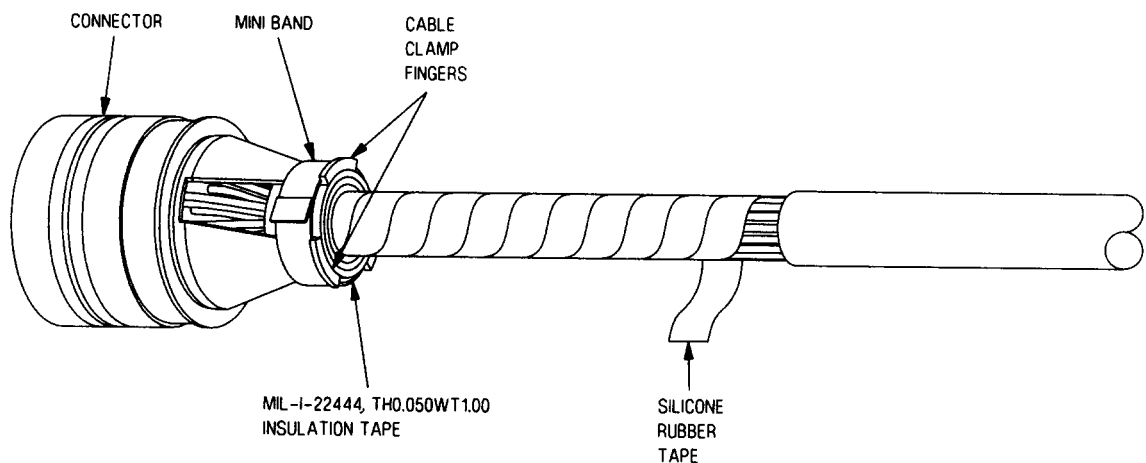
NOTE

Wrap permacel tape in same direction as hot spotz tape was applied.

n. Wrap MIL-I-46852, TYPE 2, 1.000 IN., RED insulation tape over hot spotz tape starting with one

complete turn around connector backshell, do not cover drain holes. Continue wrapping with a 50% overlap, ending wrap where hot spotz tape ended. Terminate tape by wrapping one full turn around and perpendicular to cable axis.

o. Secure in place with spot tie lacing tape. After tying lacing tape, apply enough silicone varnish to secure knot and cover the cut ends. See figure 20.

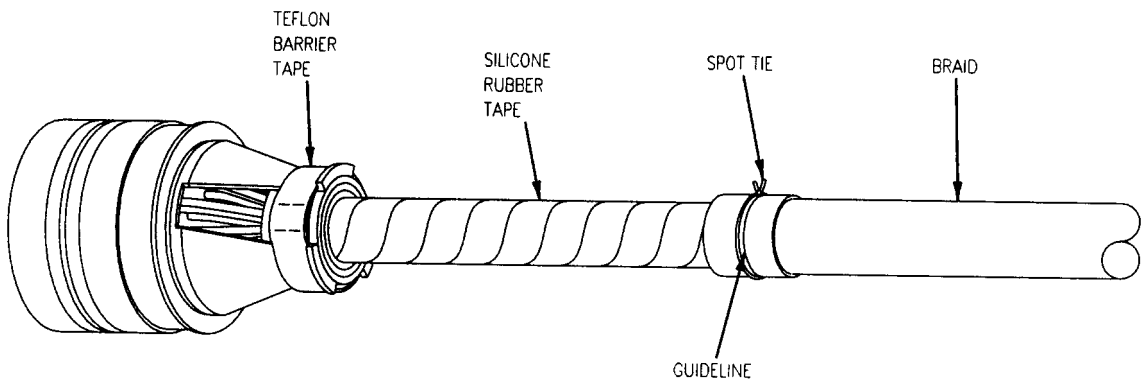


091017

Figure 17. Installing Mini Band

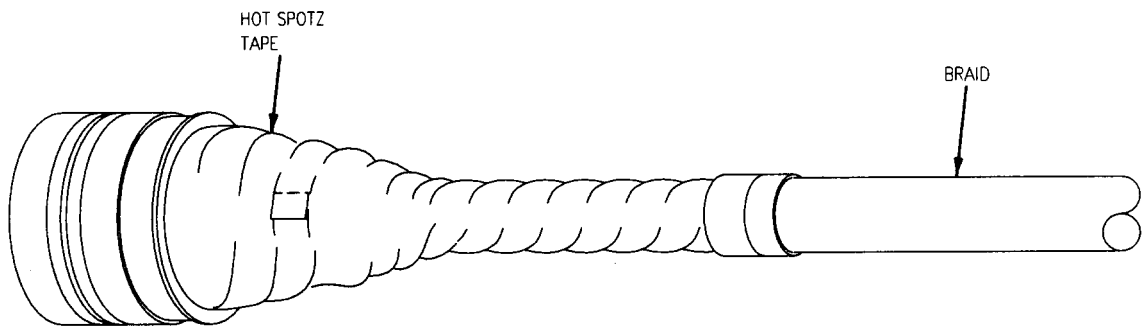
Table 3. Mini Band

PART NUMBER	CAGE	WIDTH (INCH)
S3175-4	07418	3/16
TEMPERATURE RANGE: -55° TO +150°F		



091018

Figure 18. Tape Wrapping of Boot Area



091019

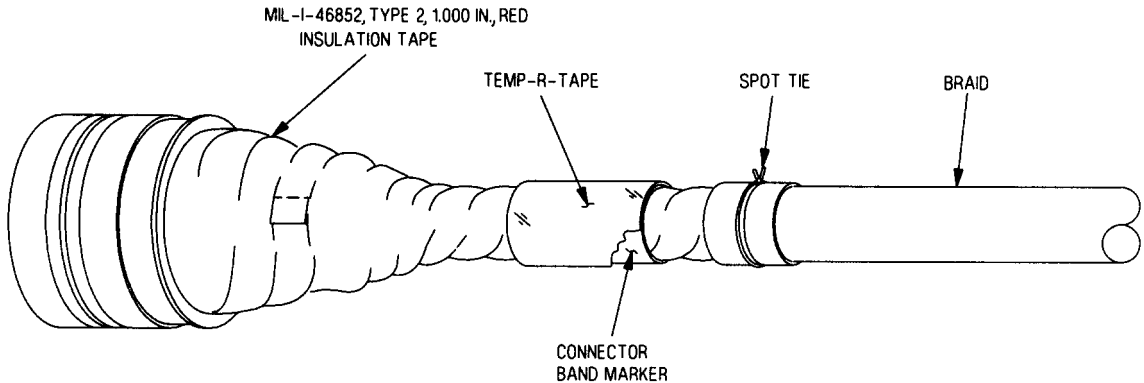
Figure 19. Wrapping Hot Spotz Tape Boot

Table 4. Teflon Barrier Tape

PART NUMBER	CAGE	WIDTH (INCH)
62	20999	1/2
TAPE COMES IN ROLLS COLOR - WHITE OR BROWN TEMPERATURE RANGE: -130° TO +500°F		

Table 5. Hot Spotz Tape

PART NUMBER	CAGE	WIDTH (INCH)
AF100A	62088	1
AF150A	62088	1 1/2
TAPE COMES IN ROLLS COLOR - SILVER TEMPERATURE RANGE: -178° TO +500°F		

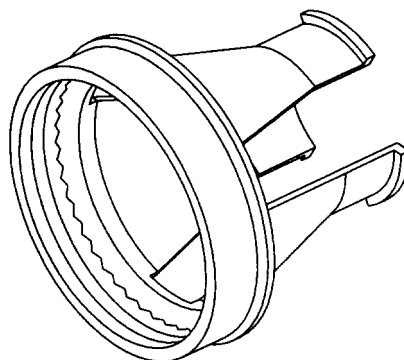


091020

Figure 20. Wrapping MIL-I-46852, TYPE 2, 1.000 IN., RED Insulation Tape Boot

Table 6. MIL-I-46852, TYPE 2, 1.000 IN., RED Insulation Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-46852, TYPE 2, 1.000 IN., RED	81349	1
SELF - BONDING TAPE COMES IN ROLLS COLOR - RED TEMPERATURE RANGE: -178° TO +500°F		

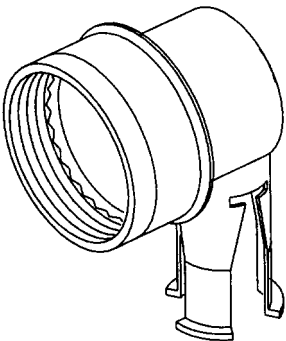


091021

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	ADAPTER TOOL
22P-S024	S3957S8-34	169 00	CM389L-9
84P-S015A	S3957S12-34	169 00	CM389L-13
84P-S015B	S3957S12-34	169 00	CM389L-13
84P-S015C	S3957S12-34	169 00	CM389L-13
84P-S015D	S3957S12-34	169 00	CM389L-13
84P-T016B	S3957S12-34	169 00	CM389L-13
84P-T016C	S3957S12-34	169 00	CM389L-13
84P-T016D	S3957S12-34	169 00	CM389L-13

Figure 21. S3957SXX-34 Backshell

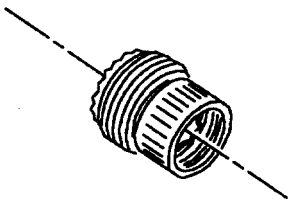


091022

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	ADAPTER TOOL
22P-S025	S3957R10-34	169 00	CM389L-11
22P-T022	S3957R8-34	169 00	CM389L-9
84P-T016A	S3957R12-34	169 00	CM389L-13

Figure 22. S3957RXX-34 Backshell



091023

Reference Designation to Backshell Data Index

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE	ADAPTER TOOL
5P-P071	S2160-0609-34	169 00	CM389L-11

Figure 23. S2160 Adapter

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****KP-8610-120-602 (MIL-C-39012) COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair with Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to
Figure Number Index

3. PROCEDURE.

Reference
Designation

Figure No.



61P-Y100B

9

1. DESCRIPTION.

2. The KP-8610-120-602 coaxial connector is a straight, lanyard release plug (RG 400 cable) and has a temperature range of -65° to +329° F. It is not repairable.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

Support Equipment Required

Part Number or
Type Designation

Nomenclature

HT-900

Heat Tool

3308AS100

Repair Set - Wire and
Connector

1317AS100-1

Nitrogen Servicing
Unit - NAN-3

Materials Required

Specification
or Part Number

Nomenclature

MS23053/5-XXX-0

Shrink Sleeve

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

6. DISTANCE ADJUSTMENT.

a. Measure distance between blades. See figure 1.

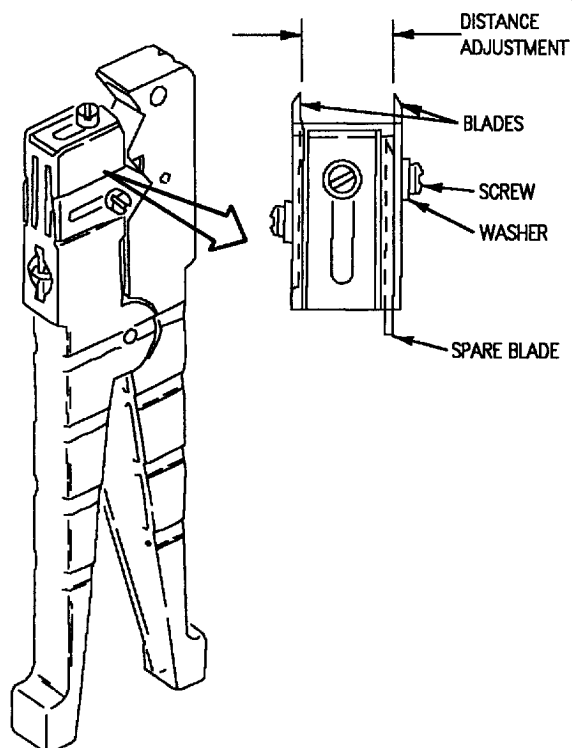
b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades $\frac{3}{64}$ -inch.

c. Install screws and tighten handtight.

d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

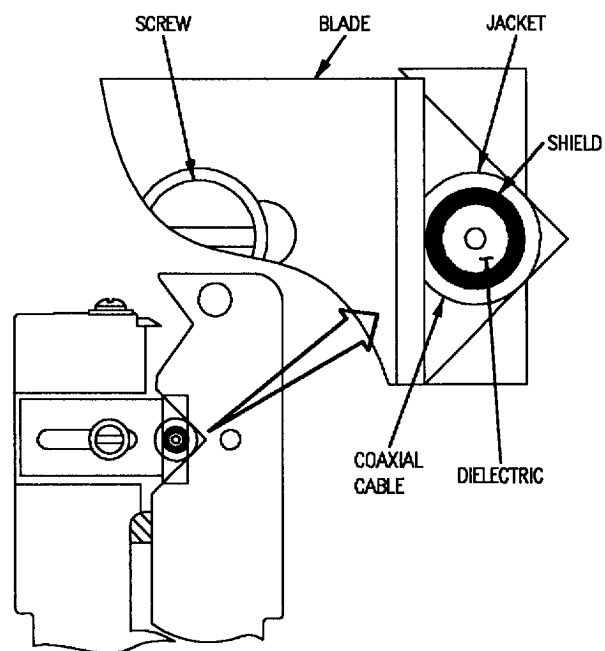
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



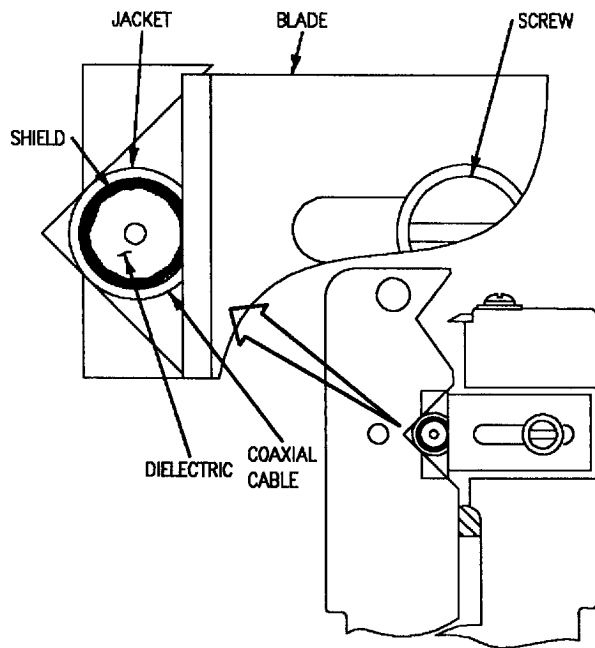
F/A-18-WRM-(409-3)01-CAT1

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CATI

Figure 3. Shield Cut Adjustment**8. USE.**

a. Position stripper on cable so that blades face down. See figure 4.

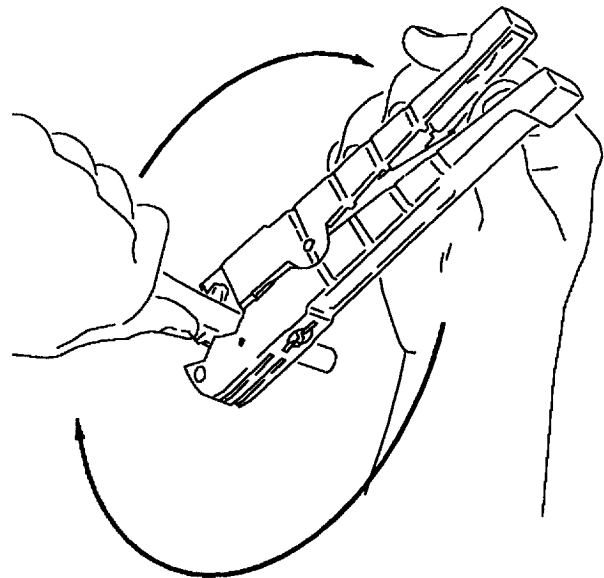
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.



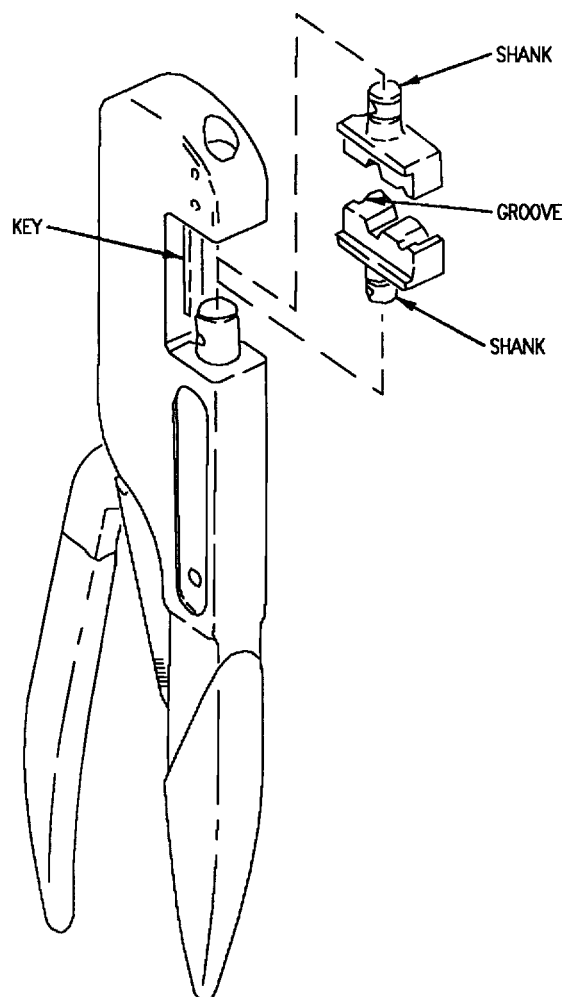
F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation

9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

10. DIE INSTALLATION.

- Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- Close handle to make sure dies are correctly seated and locked in place.

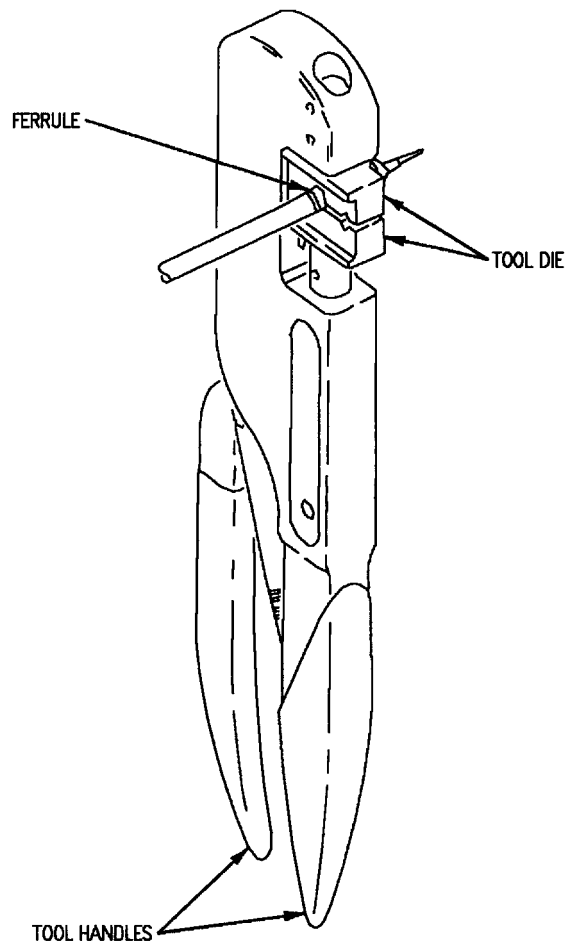


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- Position crimping material in correct cavity of dies. See figure 6.
- Squeeze tool handles until ratchet releases.
- Open handles and remove terminal and wire assembly and inspect crimp.



F/A-18-WRM-(410-1)01-SCAN

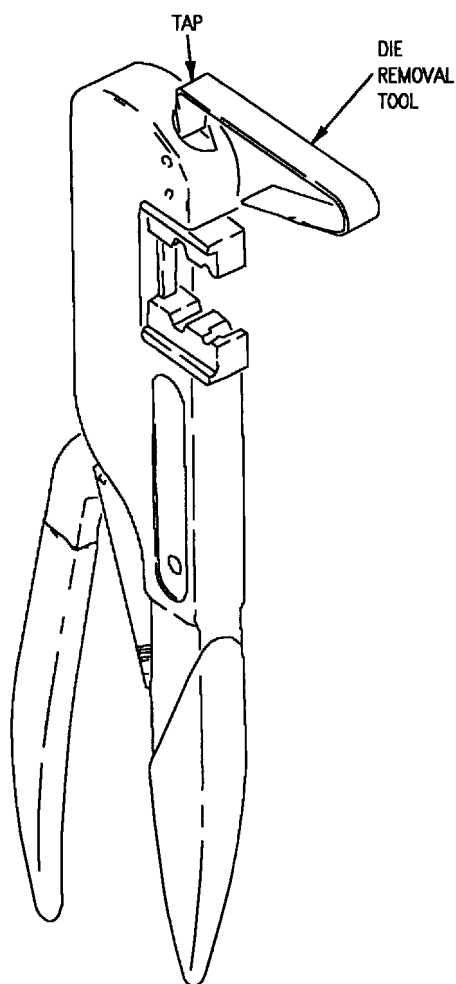
Figure 6. Crimping Operation

12. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

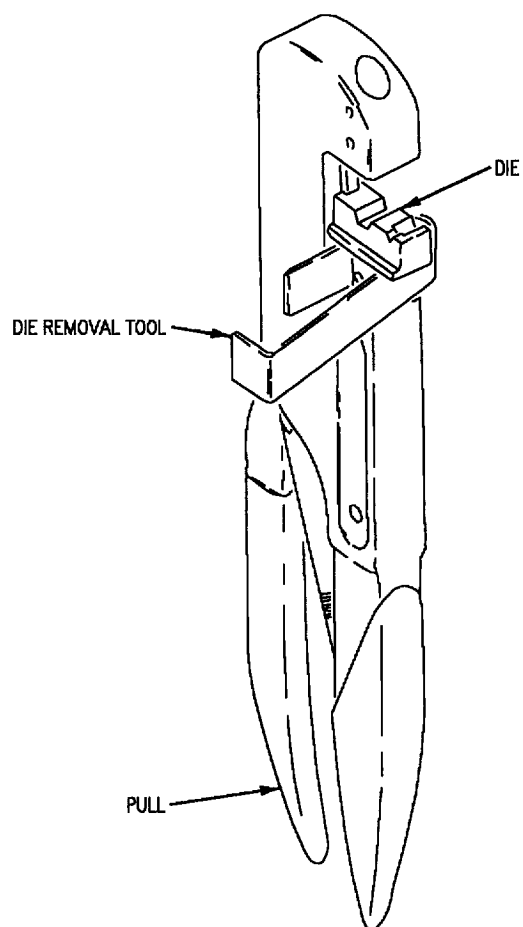


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16 inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

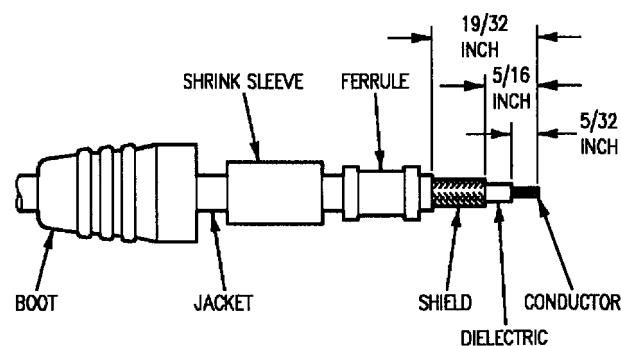
d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

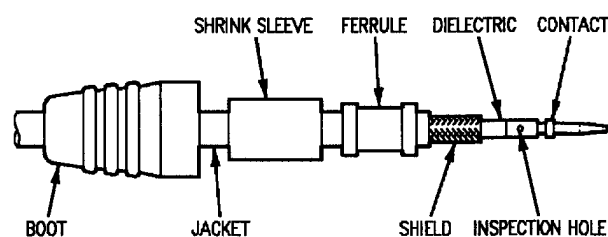
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Slide boot away from connector end of cable. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades see (paragraph 5). Strip cable jacket 19/32-inch and shield 5/16-inch. Using sharp knife, remove 5/32-inch of dielectric.



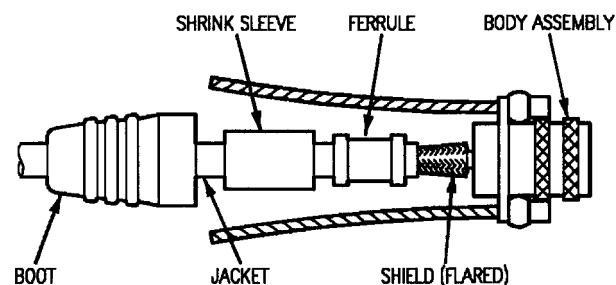
F/A-18-WRM-(310-2)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using Y204 die set and M22520/5-01 crimping tool frame, crimp contact in the B cavity of die set see (paragraph 9).



F/A-18-WRM-(320-3)01-CATI

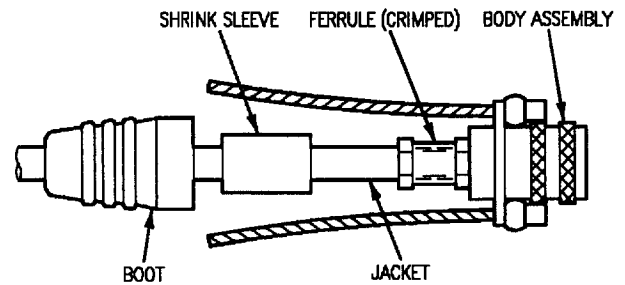
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-4)01-CATI

Figure 9. KP-8610-120-602 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using Y572 die set and M22520/5-01 crimping tool frame, crimp ferrule in "B" cavity of die set (see paragraph 9).



F/A-18-WRM-(340-4)01-CAT1

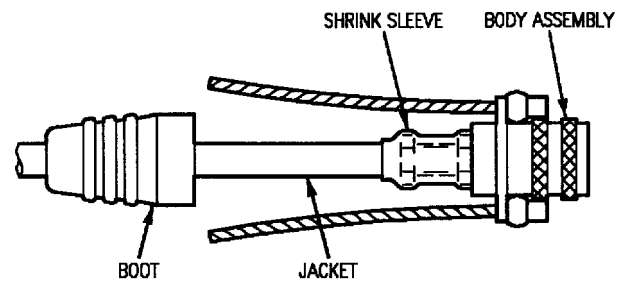
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

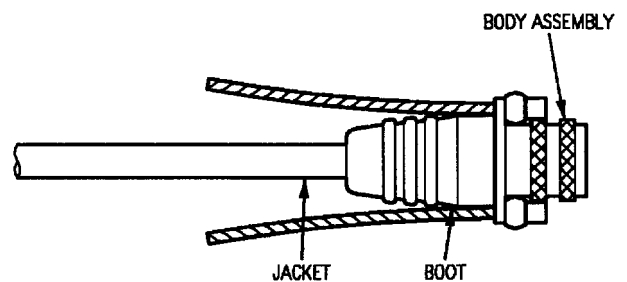
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(350-4)01-CAT1

7. Slide boot over assembly.



F/A-18-WRM-(360-1)01-CAT1

Figure 9. KP-8610-120-602 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****31-3228-(), 31-3229-(), 31-4229-(), 82-3223-(), 82-5627-()
AND 82-5676-1 (MIL-C-39012) COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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


Alphabetical Index (Continued)

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31-4229-1001 and 31-4229-1002 Coaxial Connector Repair, Figure 12	14
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82-5627-1 and 82-5627-2 Coaxial Connector Repair, Figure 14	18
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Record of Applicable Technical Directives

None

Reference Designation to
Figure Number Index

Reference Designation	Figure No.
 60P-E007	13
 61P-E013	10
69P-F007	13
71P-B004	15
72P-A002D	12
72P-A002F	12
74P-B007	11
74P-B008	11
76P-B018	14
76P-F004C	10
76P-F004D	10
76P-F004F	10
76P-F004G	10
76P-F004H	10
76P-F019	13
76P-F029	11
 77P-F003B	11
78P-B007	14
78P-E008	13

LEGEND

 F/A-18B
 F/A-18A

1. DESCRIPTION.

2. These connectors are single conductor, crimp type coax plugs. There are two types of connectors, straight and right angle. These connectors have a temperature range of -85° to +392°F. They are not repairable.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve

3. PROCEDURE.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 AND 45-165 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

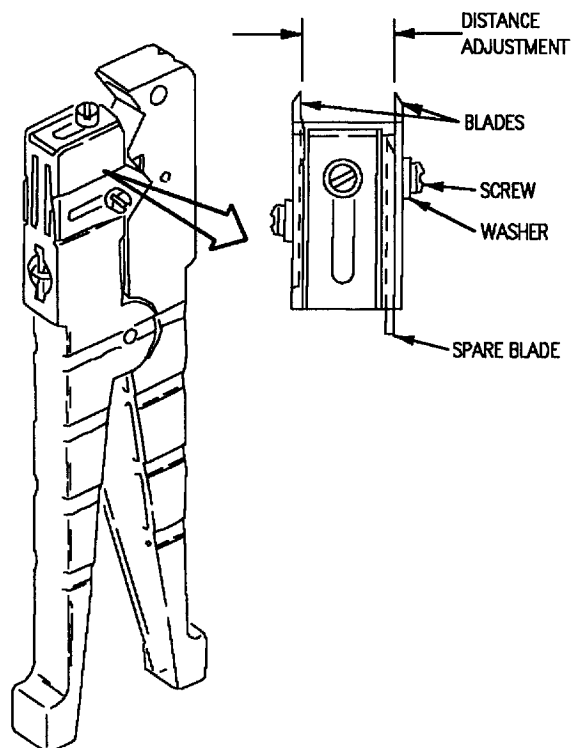
6. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades $\frac{3}{64}$ -inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

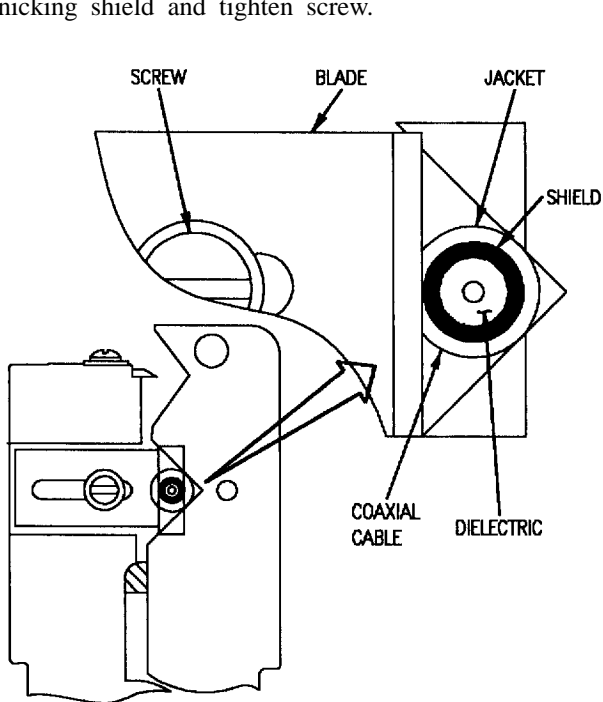
Figure 1. Distance Adjustment

7. DEPTH OF CUT ADJUSTMENT.**NOTE**

A test strip should be done on spare coax blade so it cuts before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



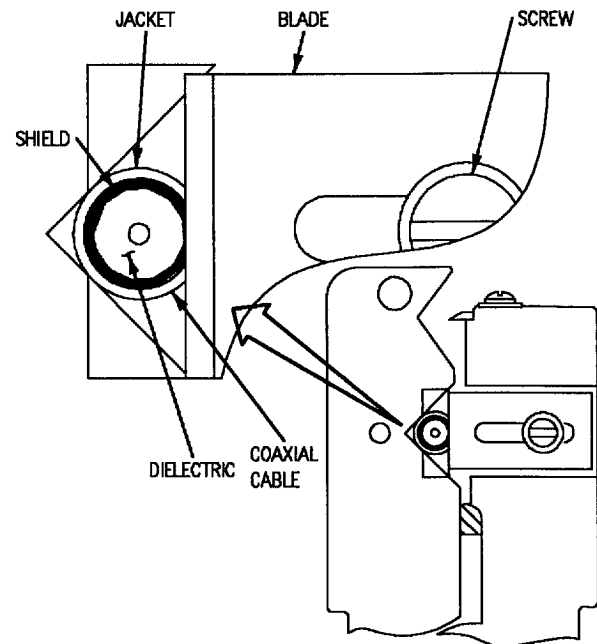
F/A-18-WRM-(409-3)01-CAT I

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CAT I

Figure 3. Shield Cut Adjustment

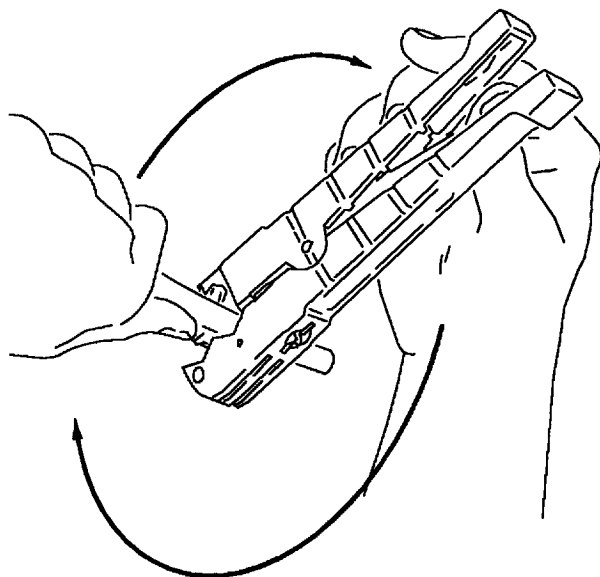
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

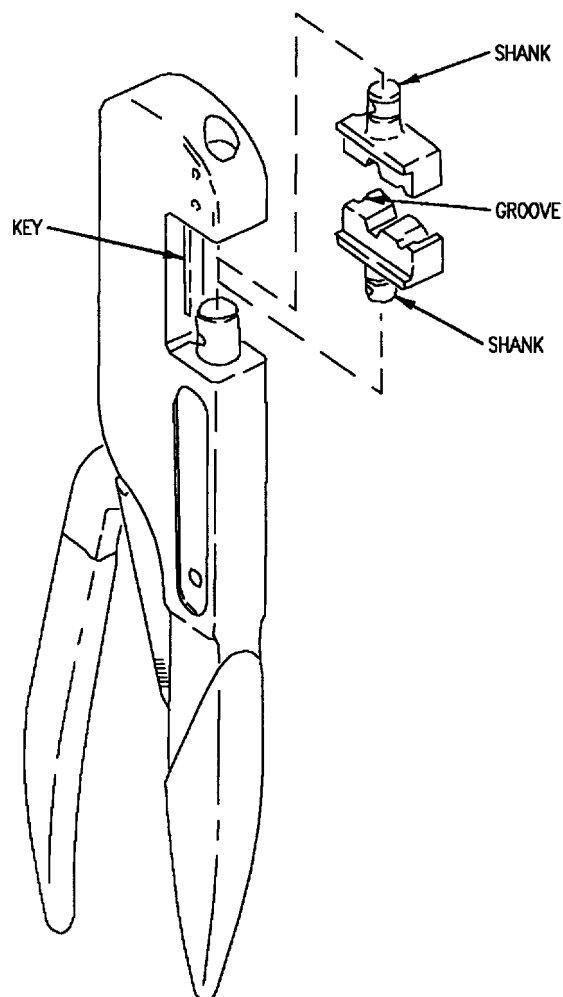
- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are correctly seated and locked in place.

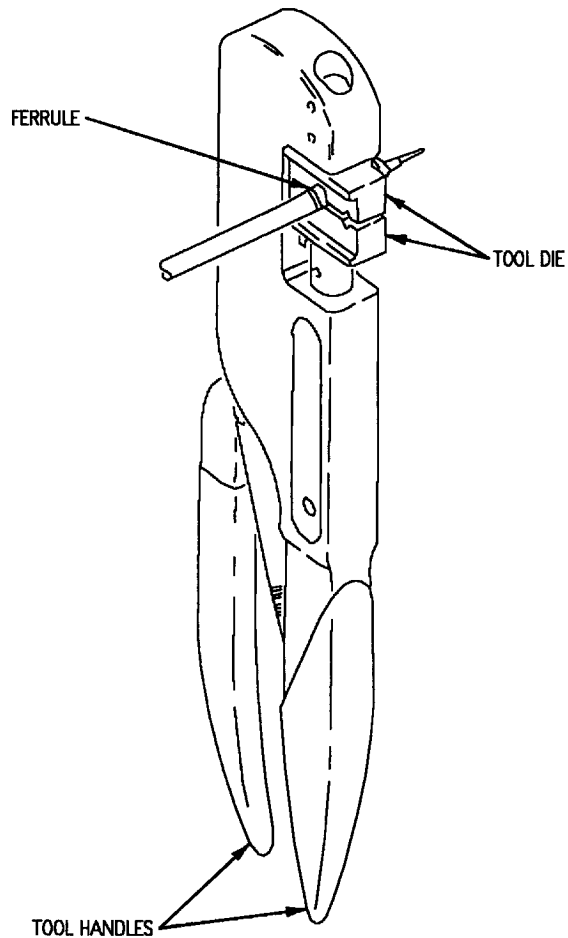


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

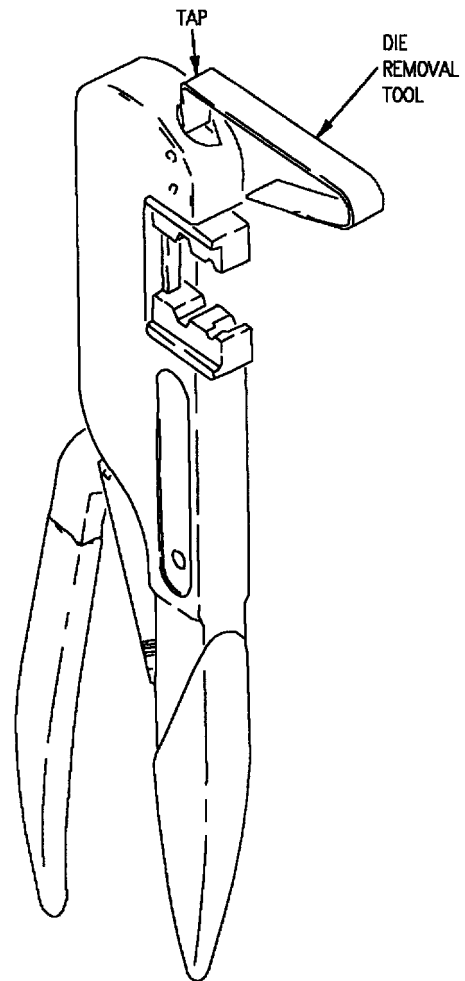


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Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

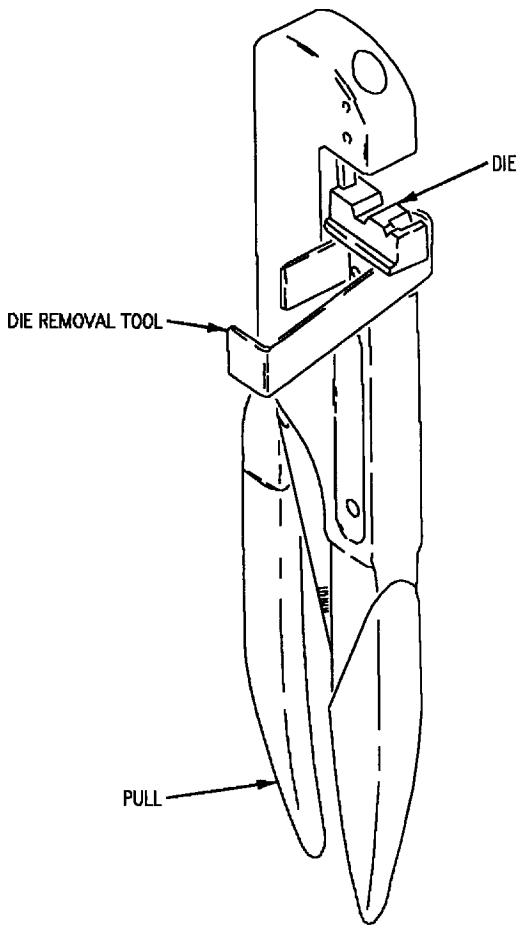


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Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

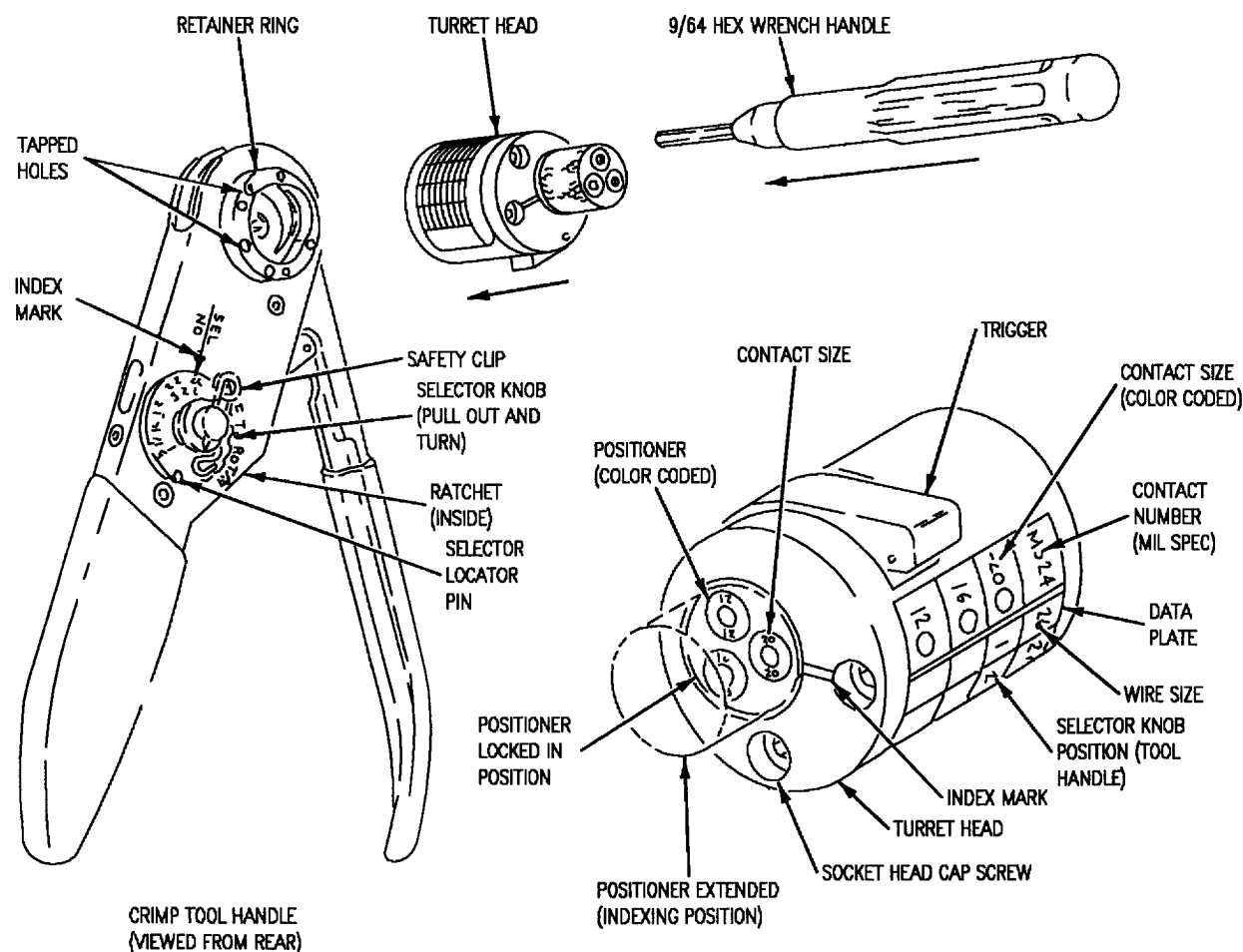
- a. Select turret head or universal position head needed for applicable connector.

NOTE

Tool handle shall be fully open when inserting turret or positioner head and when changing selector positions.

14. REMOVAL AND INSTALLATION OF TURRET HEAD.

- a. Press trigger on turret head releasing positioner to extended (indexing) position. See figure 9.
- b. Seat turret head onto retainer ring on back of tool with screws lined up with tapped holes.
- c. Tighten socket head screws with a 9/64-inch allen wrench.
- d. To remove, loosen socket head screw until threads are disengaged from tapped holes, open handles completely and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

15. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- a. Press trigger on turret head releasing positioner to extended (indexing) position.
- b. Select positioner desired from color coded data plate on side of turret head assembly.
- c. Rotate positioners until color coded positioner is lined up with index mark.
- d. Press positioner into turret head until it snaps into locked position.

16. SETTING SELECTOR KNOB USING TURRET HEAD.

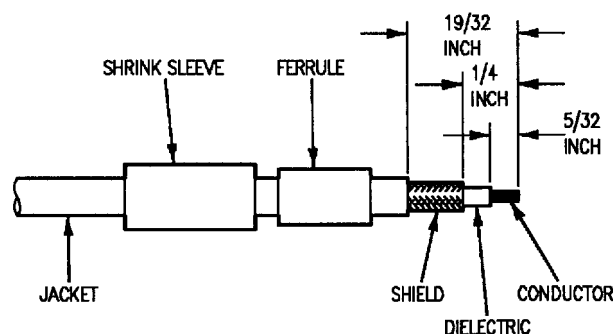
- a. Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on data plate.
- d. Replace safety clip.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

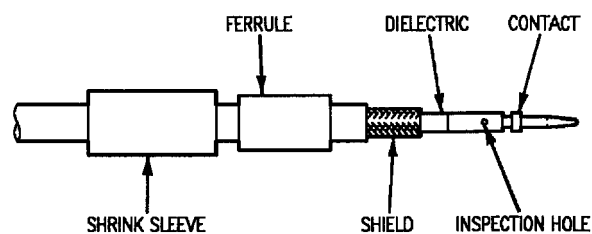
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



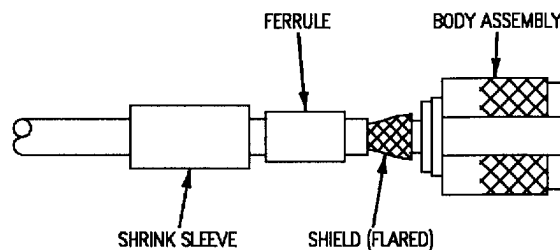
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-1)01-CATI

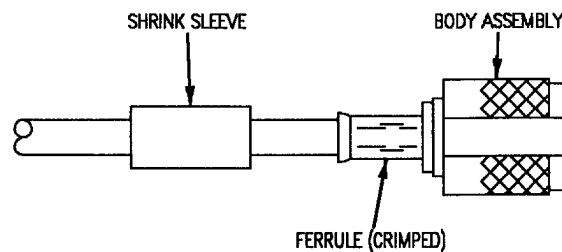
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(145-1)02-CATI

Figure 10. 31-3228-1001, 31-3228-1002, 31-3228-1004, 31-3228-1005 and 31-3228-1006 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(145-2)02-CATI

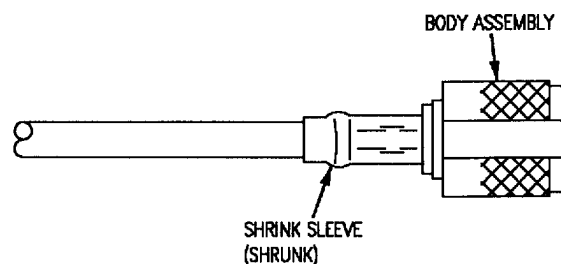
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(145-3)02-CATI

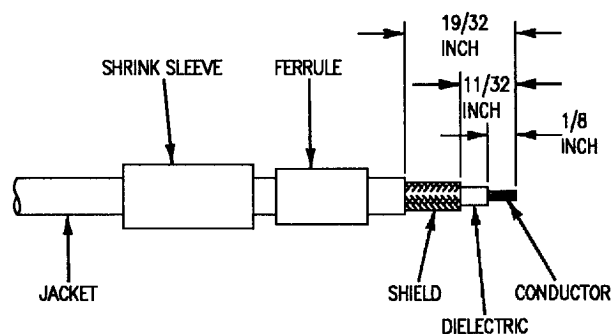
Figure 10. 31-3228-1001, 31-3228-1002, 31-3228-1004, 31-3228-1005 and 31-3228-1006 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

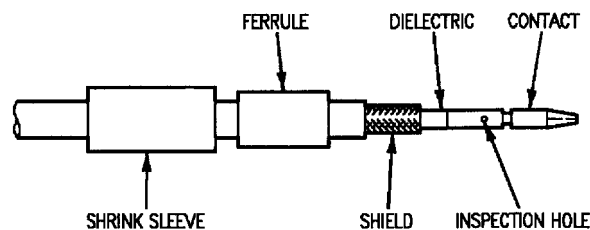
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 11/32-inch. Using sharp knife remove 1/8-inch of dielectric.



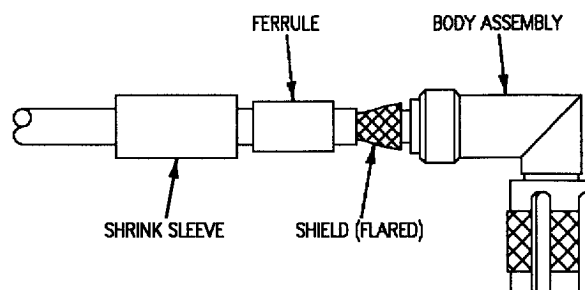
F/A-18-WRM-(310-3)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Green) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

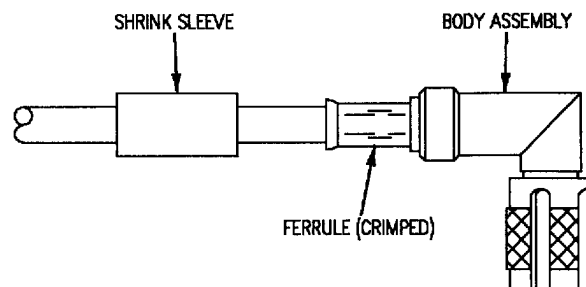
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(146-1)02-CATI

Figure 11. 31-3229-1001, 31-3229-1002 and 31-3229-1004 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520-5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(146-2)02-CATI

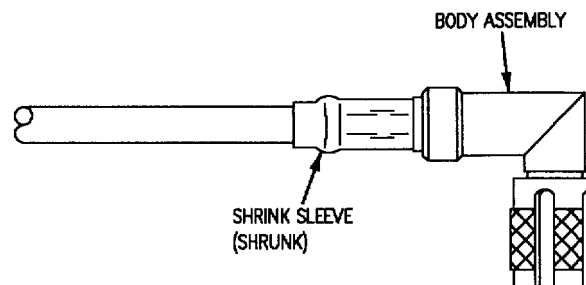
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(146-3)02-CATI

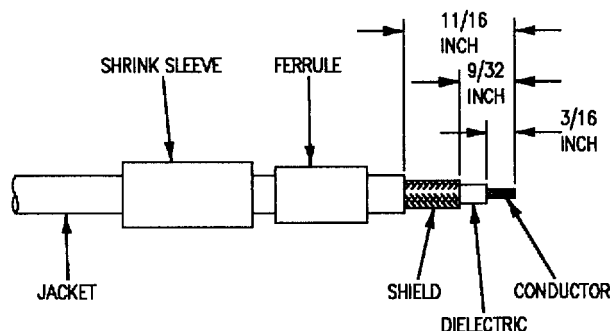
Figure 11. 31-3229-1001, 31-3229-1002 and 31-3229-1004 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

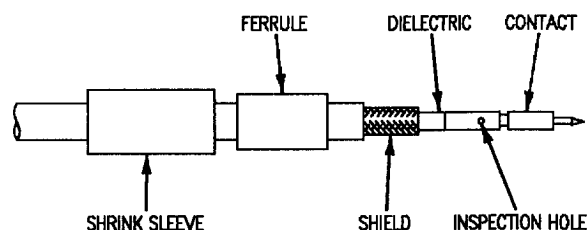
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



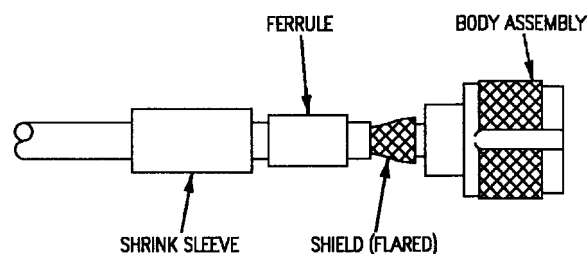
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible-through inspection hole in contact. Using Y204 die set M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 3 (see paragraph 13).



F/A-18-WRM-(148-2)02-CATI

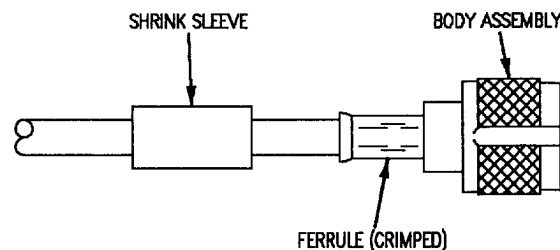
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(148-3)02-CATI

Figure 12. 31-4229-1001 and 31-4229-1002 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using Y204 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(148-4)02-CAT I

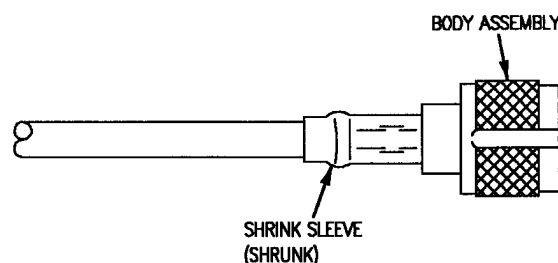
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(148-5)02-CAT I

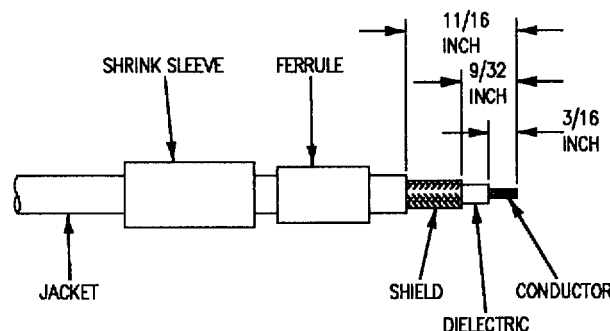
Figure 12. 31-4229-1001 and 31-4229-1002 Coaxial Connector Repair (Sheet 2)



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

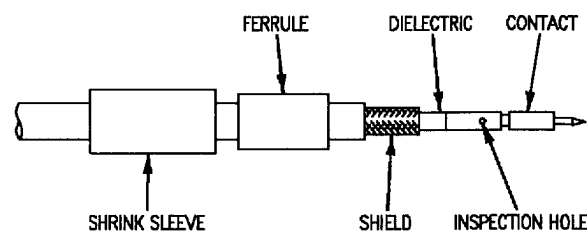
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



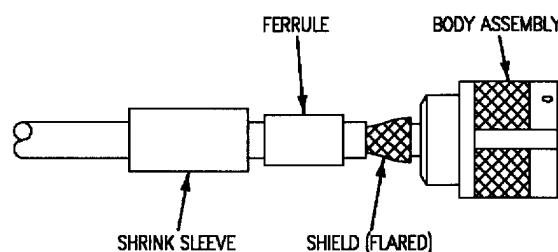
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Green) turret heat and M22520/1-01 crimping tool handle, crimp contact using setting 7 (see paragraph 13).



F/A-18-WRM-(149-1)02-CATI

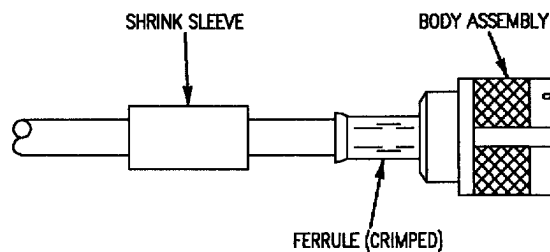
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(149-2)02-CATI

Figure 13. 82-3223-1, 82-3223-2, 82-3223-3 and 82-3223-4 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(149-3)02-CATI

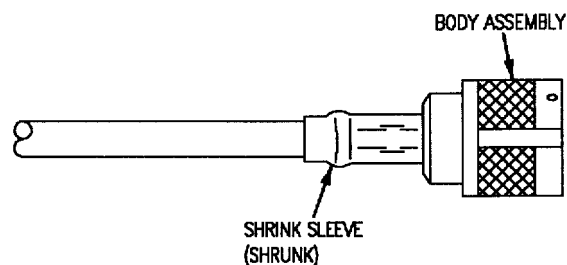
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(149-4)02-CATI

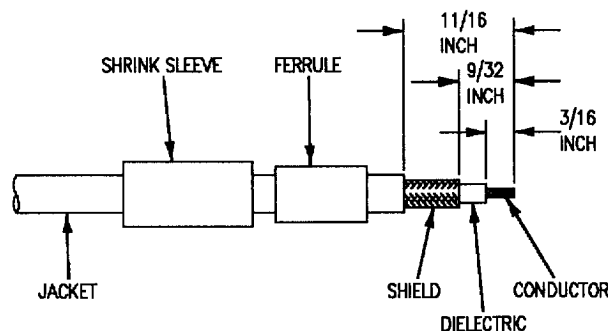
Figure 13. 82-3223-1, 82-3223-2, 82-3223-3 and 82-3223-4 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

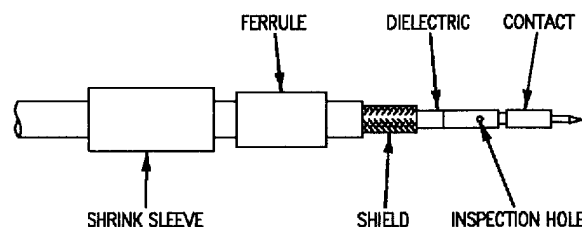
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



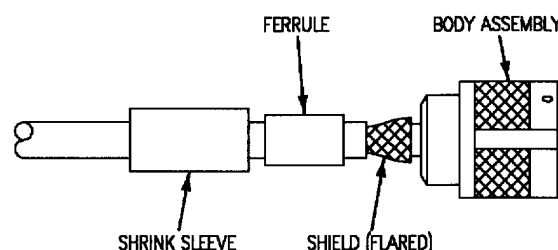
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Green) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 7 (see paragraph 13).



F/A-18-WRM-(149-1)02-CATI

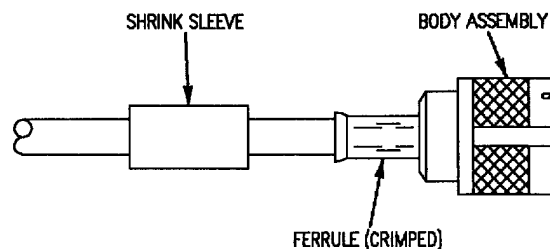
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(149-2)02-CATI

Figure 14. 82-5627-1 and 82-5627-2 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(149-3)02-CATI

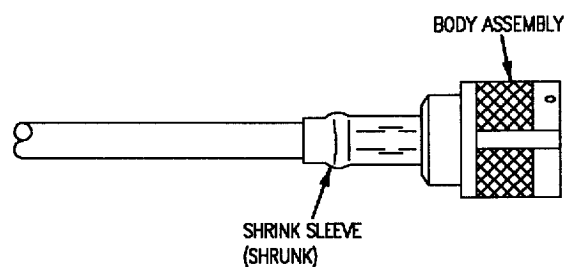
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(149-4)02-CATI

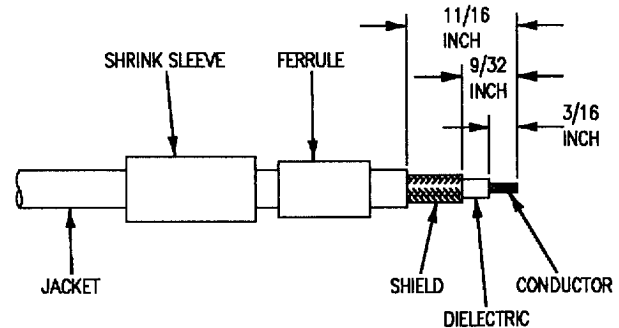
Figure 14. 82-5627-1 and 82-5627-1 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

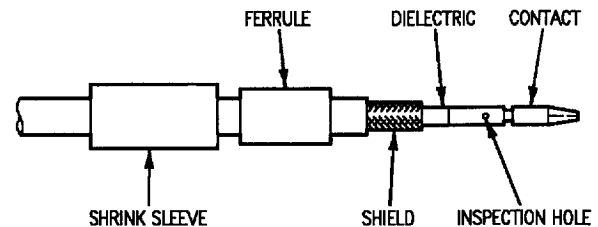
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



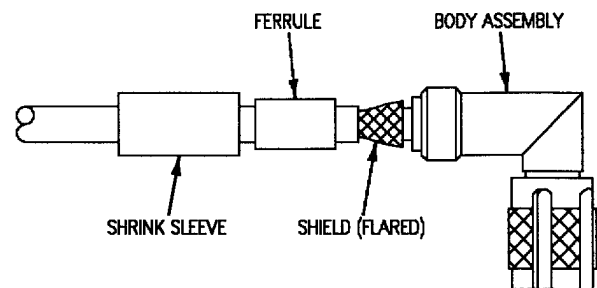
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 8 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

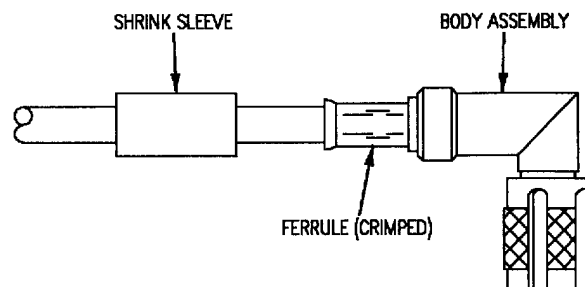
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(146-1)02-CATI

Figure 15. 82-5676-1 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(146-2)02-CATI

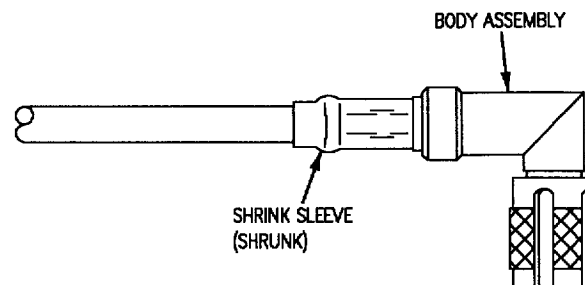
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(146-3)02-CATI

Figure 15. 82-5676-1 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****AN3116-2 AN TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

Reference Designation	Figure No.
33P-J009	8
 33P-L019	8

LEGEND

 F/A-18B

1. **DESCRIPTION.**

2. AN3116-2 is a non-RF coax-type connector used in the cockpit lighting system. It has a single soldered inner contact and the shield is retained by an interference fit between the connector housing and the ferrule assembly. It is not repairable. The connector is made up of a connector housing, fiber washer, contact, fiber spacer, and ferrule assembly.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
MIL-S-8516 TYPE 1, CLASS 3	Sealing Compound
MMS409	Cleaning Compound
EC1945BA	Adhesive Primer
SN60WRMAP2-0-040	Solder

3. **PROCEDURE.**



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

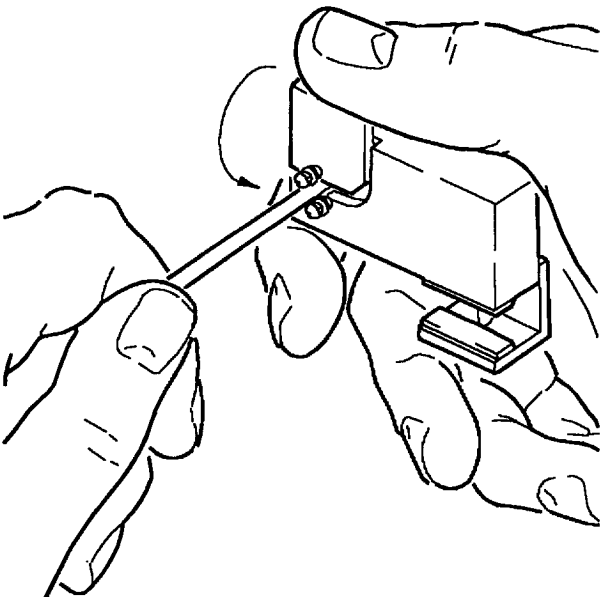
4. Refer to Reference Designation to Figure Number Index in this WP for correct figure.

5. **WIRE STRIPPER R-720A USE.**

NOTE

For detailed explanation of wire strippers see WP010 00.

a. Place wire stripper on cable at desired stripping point. See Figure 1.



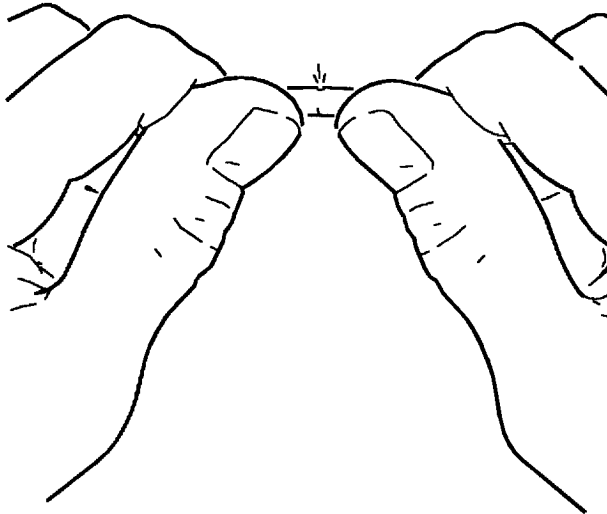
F/A-18-WRM-(423-1)01-SCAN

Figure 1. R-720A Wire Stripper Use

b. Rotate wire stripper one-half turn (180°).

c. Remove stripper and flex cable at stripping point to complete jacket separation. See Figure 2.

d. Remove jacket and use scissors to remove loose or raveled ends of jacket.



F/A-18-WRM-(424-1)01-SCAN

Figure 2. Jacket Removal

6. SOLDERING.

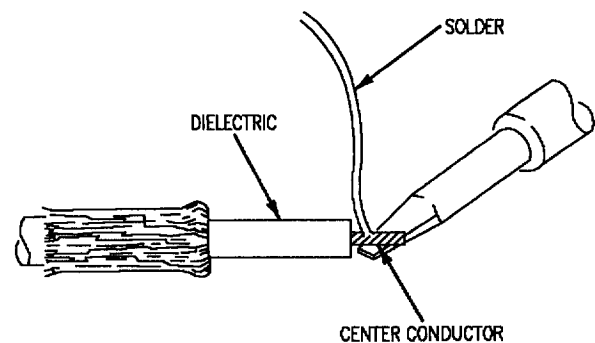
7. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

8. TINNING CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join strands together. Individual strands should be coated with solder yet their shape visible. See figure 3.

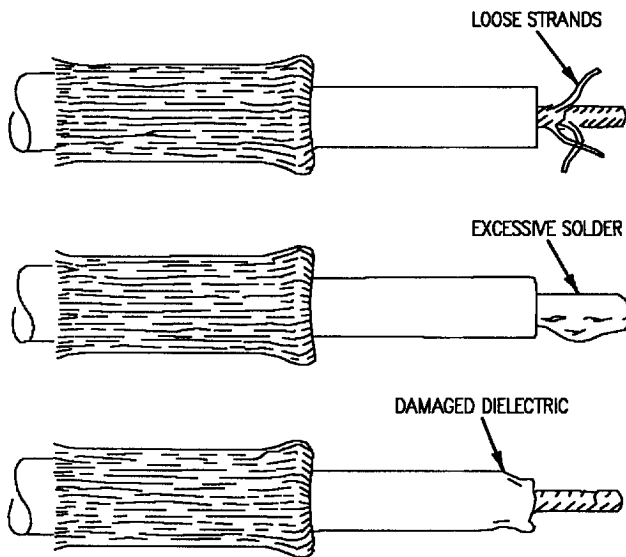


F/A-18-WRM-(139-1)02-SCAN

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

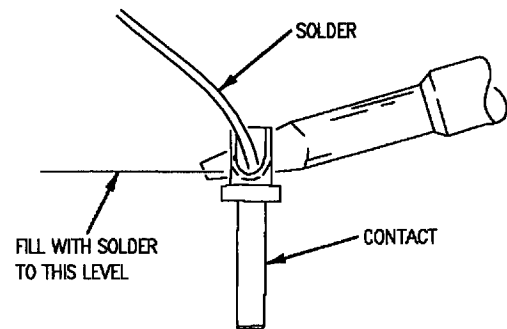


F/A-18-WRM-(412-3)02-SCAN

Figure 4. Unacceptable Conditions After Tinning

9. SOLDERING CONTACT TO CENTER CONDUCTOR.

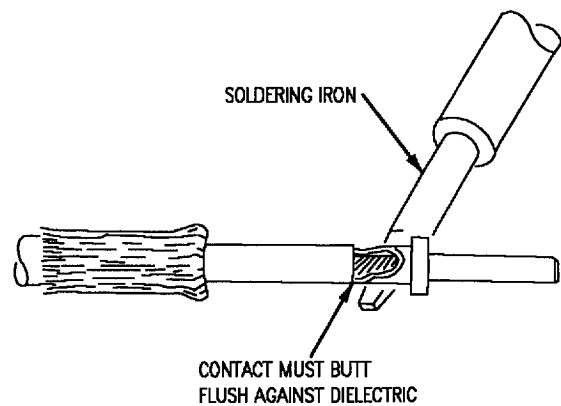
- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 5.



F/A-18-WRM-(574-2)02-SCAN

Figure 5. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 6.

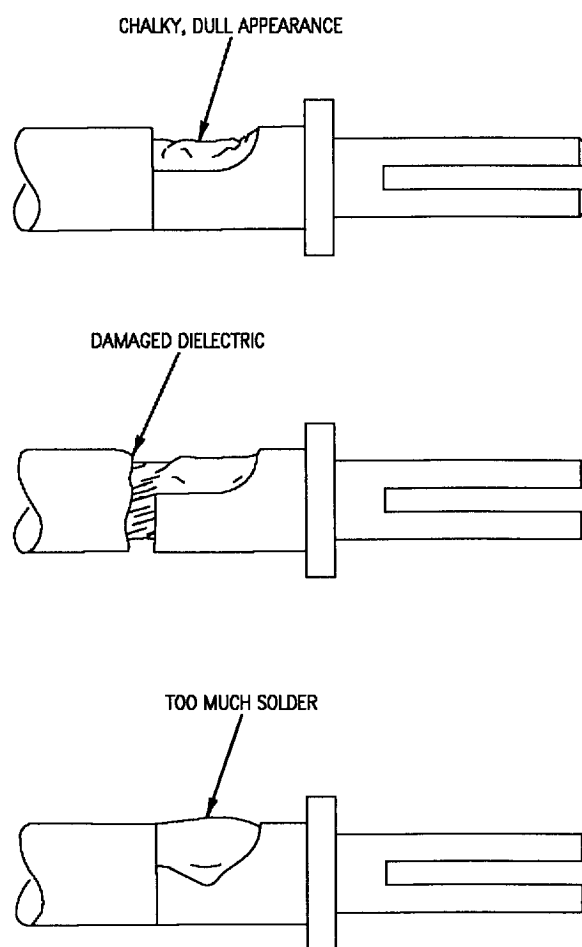


F/A-18-WRM-(413-3)02-SCAN

Figure 6. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 7.

- (1) Chalky, dull appearance (cold solder joint).
- (2) Damaged dielectric.
- (3) Too much solder.



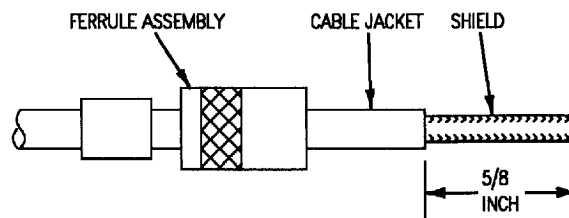
F/A-18-WRM-(412-4)02-SCAN

**Figure 7. Unacceptable Conditions
After Soldering Contact**

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Slide ferrule assembly over cable jacket. Using R-720A wire stripper, remove 5/8-inch of cable jacket. See paragraph 5.



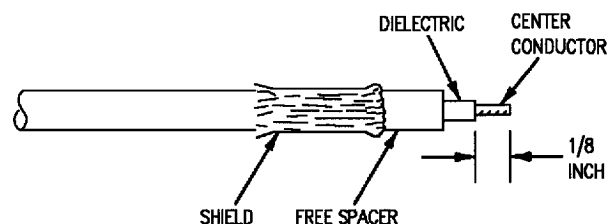
F/A-18-WRM-(144-1)02-CAT1

2. Comb shield and fold back over cable jacket.

CAUTION

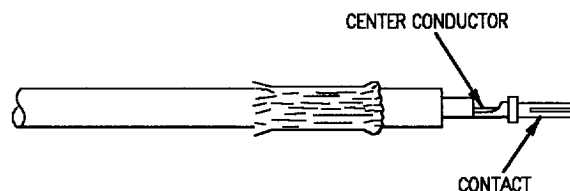
To prevent premature failure of connector, do not nick or scratch center conductor.

3. Using sharp knife, remove 1/8-inch of insulation from center conductor. Slide fiber spacer over insulation and butt against shield.



F/A-18-WRM-(144-2)02-CAT1

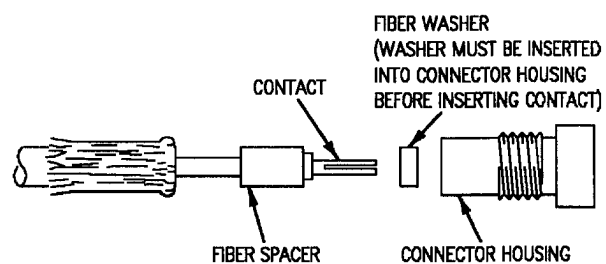
4. Using W60-3 soldering iron, tin center conductor. See paragraph 8. Solder contact to center conductor, making sure contact butts against insulation. See paragraph 9.



F/A-18-WRM-(144-3)02-CAT1

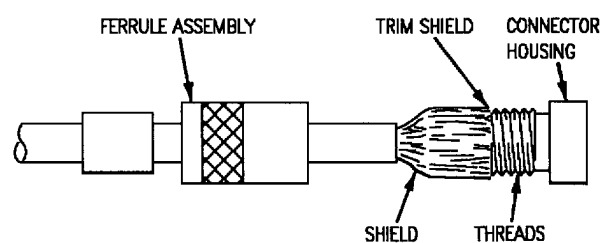
Figure 8. AN3116-2 Connector (Sheet 1)

5. Slide fiber spacer forward against contact. Insert fiber washer into connector housing.



F/A-18-WRM-(144-4)02-CATI

6. Slide connector housing fully onto contact. Fold shield over connector housing and trim at threads.



F/A-18-WRM-(144-5)02-CATI

Figure 8. AN3116-2 Connector (Sheet 2)

7. Slide ferrule assembly onto connector housing and tighten handtight.

WARNING

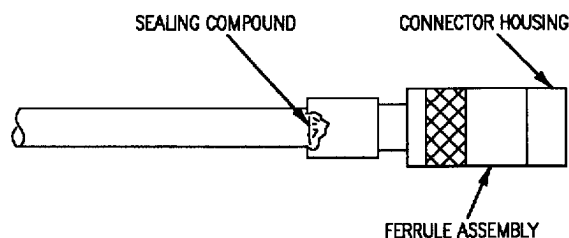
Cleaning compound and sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

Adhesive primer is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated area.

8. Clean ferrule assembly and cable with cleaning compound where sealing compound is to be applied.

WARNING

Apply adhesive primer to ferrule assembly and cable where sealing compound is to be applied. Allow primer to dry for 2 hours before applying sealing compound.



F/A-18-WRM-(144-6)02-CAT1

Figure 8. AN3116-2 Connector (Sheet 3)

9. Seal ferrule assembly with sealing compound. See table 1 for curing time of sealing compound.

TABLE 1. SEALING COMPOUND CURE TIME

TEMPERATURE (°F)	CURING TIME (HOURS)
60	50
70	40
80	30
90	20
100	10
110	8
120 Max.	6

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M39012/XX-XXX AND 1119-079-A721 (MIL-C-39012) N TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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








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Record of Applicable Technical Directives

None

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60J-U012	11
60J-V015	11
60P-U013	12
60P-V016	12
 69J-F007	11
 69J-R007	11
69P-F008A	10
69P-F008B	12
71J-B004	11
71P-B001A	12
72P-B004	12
76J-B018	11
 76J-F019	11
 76J-R019	11
 77J-K004	11
 77P-E004	12
78J-B007	11
 78J-E008	11
 78J-P008	11

LEGEND

 F/A-18B
 F/A-18A

1. DESCRIPTION.

2. The N-type coaxial connector is a general purpose, threaded coupling connector used with medium size coaxial cable. These connectors meet the requirements of MIL-C-39012.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers
see WP010 00.

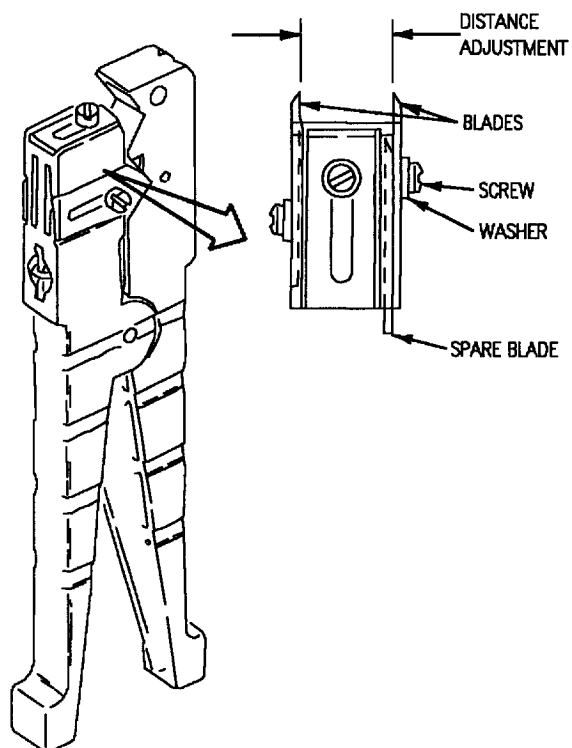
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will
change distance between blades $\frac{3}{64}$ inch.

- c. Install screws and tighten finger tight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

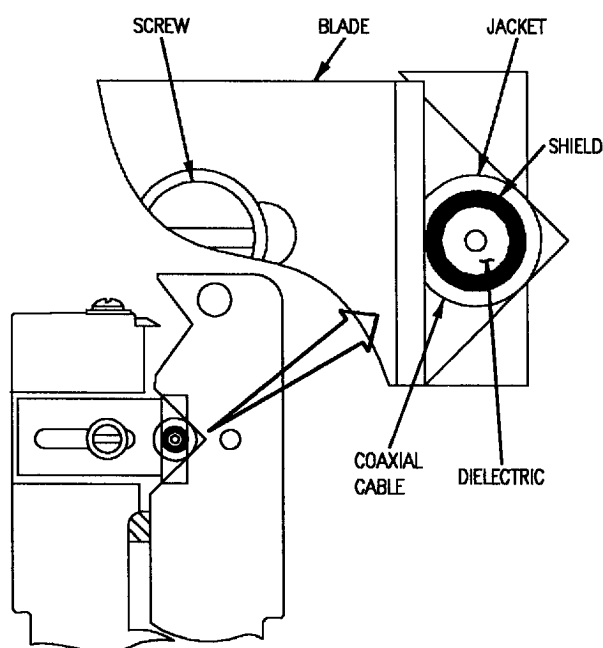
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



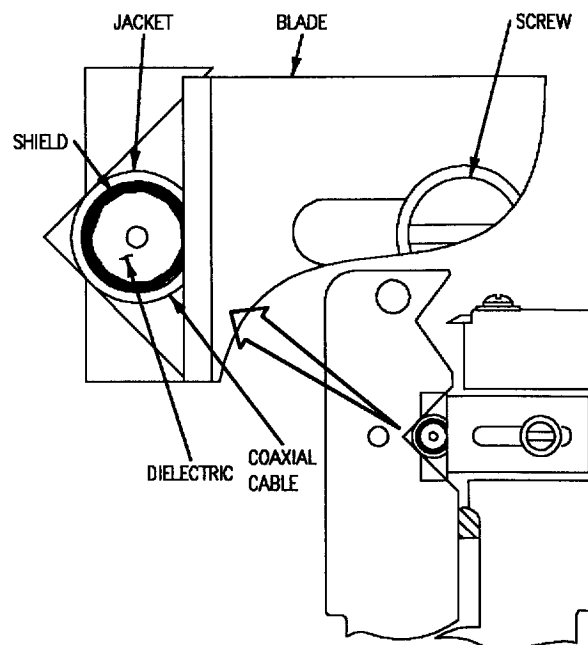
F/A-18-WRM-(409-3)01-CAT1

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CAT1

Figure 3. Shield Cut Adjustment

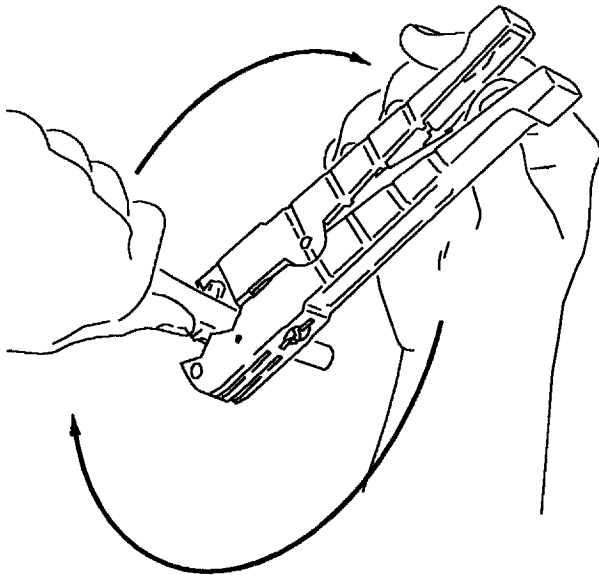
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.

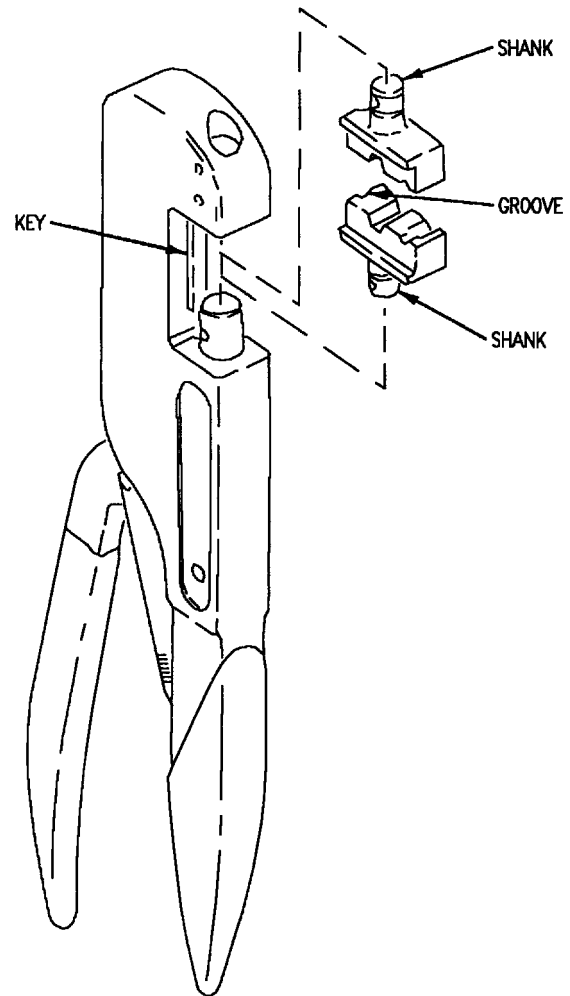


F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.

- b. Close handle to make sure dies are seated and locked in place.

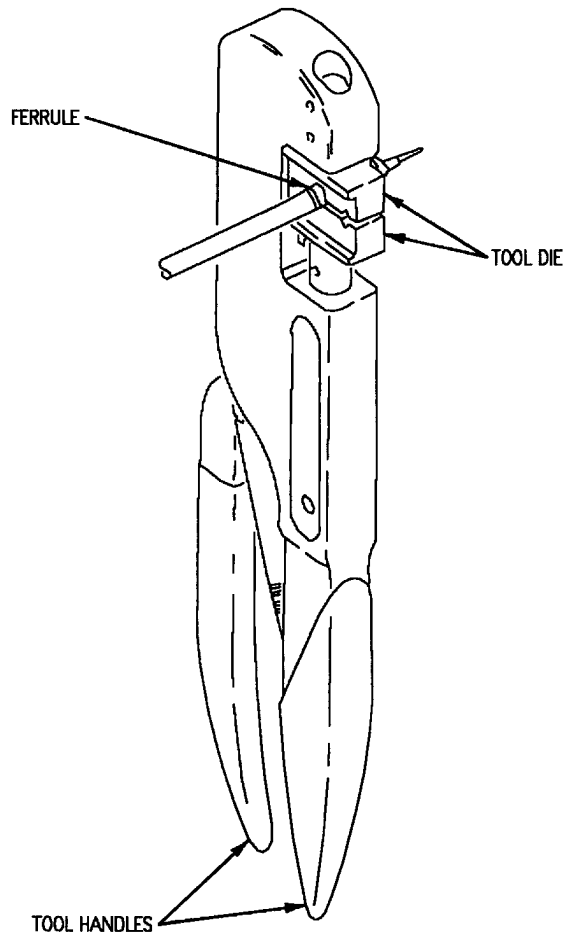


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

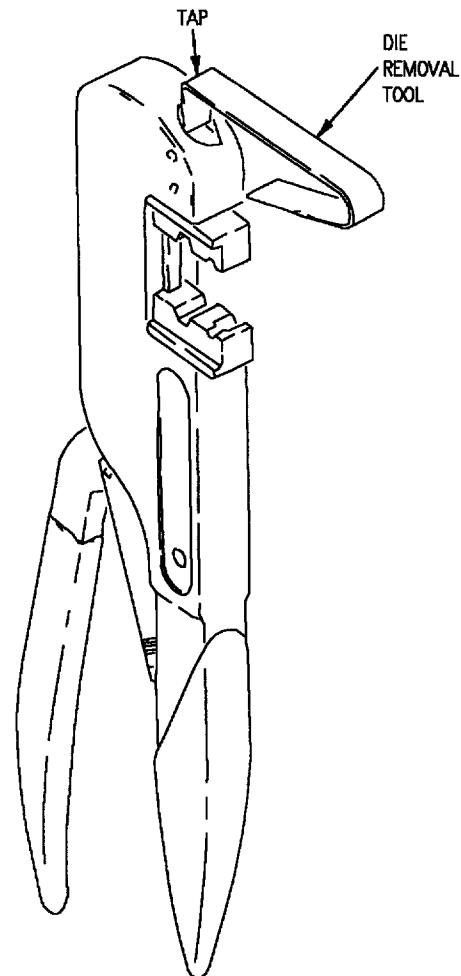


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.



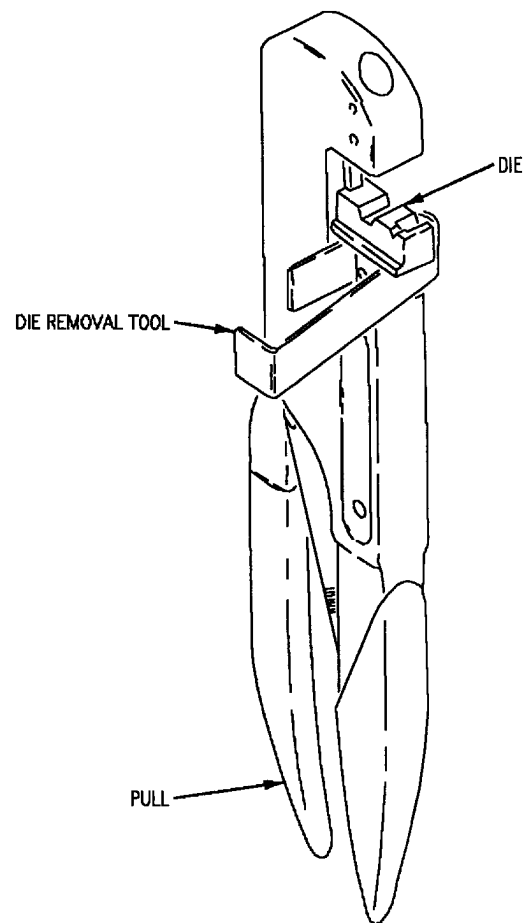
F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

- b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.

d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

- Select turret head or universal position head needed for applicable connector.

NOTE

Tool handle shall be fully open when inserting turret or positioner head and when changing selector positions.

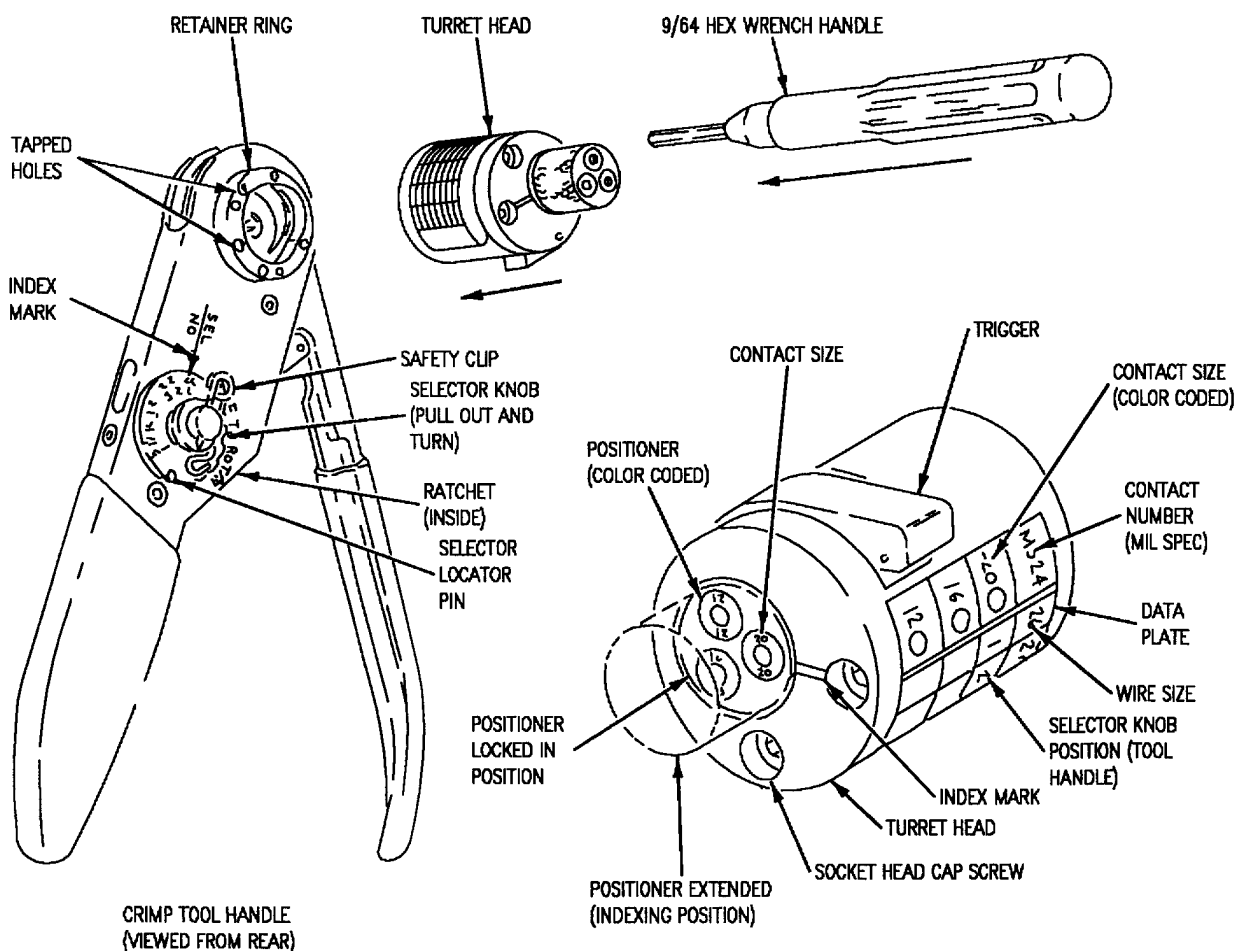
14. REMOVAL AND INSTALLATION OF TURRET HEAD.

- Press trigger on turret head releasing positioner to extended (indexing) position. See figure 9.

- Seat turret head onto retainer ring on back of tool with screws lined up with tapped holes.

- Tighten socket head screws with a 9/64-inch allen wrench.

- To remove, loosen socket head screw until threads are disengaged from tapped holes, open handles completely and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

17. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- a. Press trigger on turret head releasing positioner to extended (indexing) position.
- b. Select positioner desired from color coded data page; on side of turret head assembly.
- c. Rotate positioners until color coded positioner is lined up with index mark.
- d. Press positioner into turret head until it snaps into locked position.

18. SETTING SELECTOR KNOB USING TURRET HEAD.

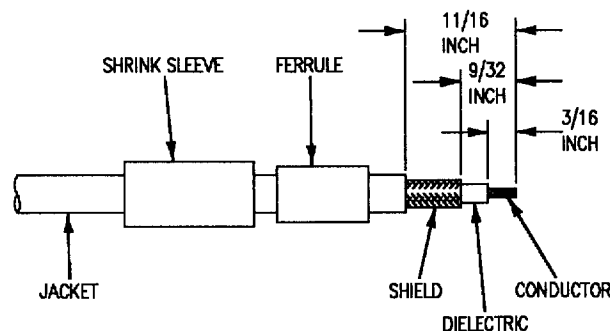
- a. Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on the data plate.
- d. Replace safety clip.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

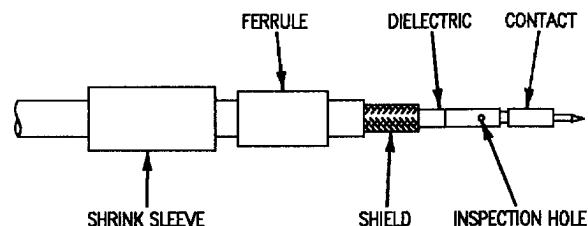
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



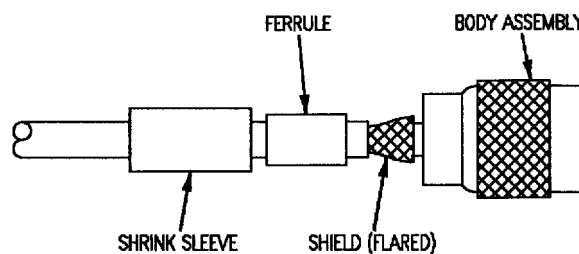
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Green) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 8 (see paragraph 13).



F/A-18-WRM-(148-2)02-CATI

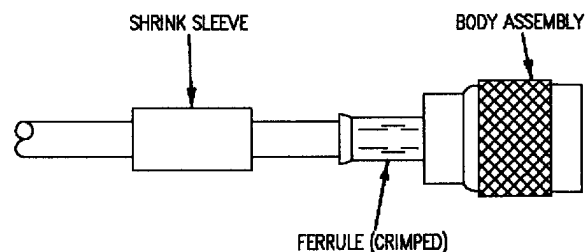
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(151-1)02-CATI

Figure 10. M39012/01-0501 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



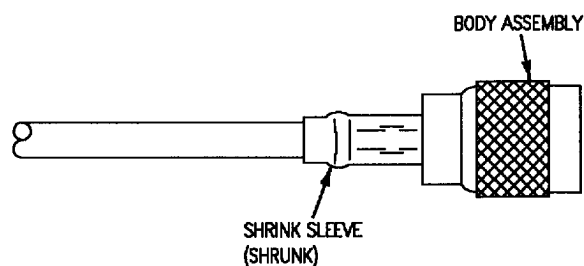
F/A-18-WRM-(151-2)02-CATI

5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion. Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(151-3)02-CATI

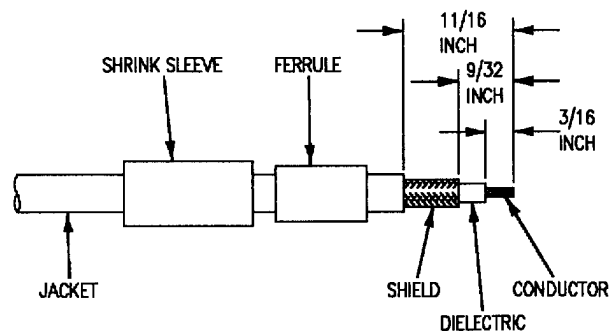
Figure 10. M39012/01-0501 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

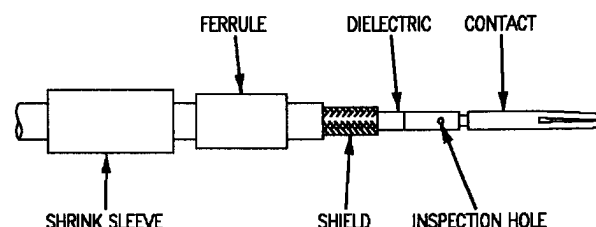
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



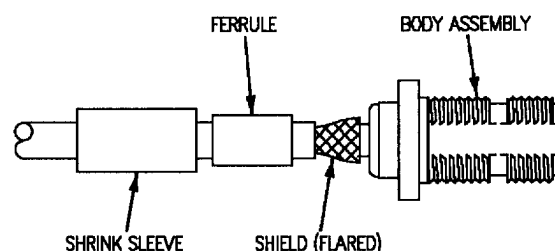
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-14 (Green) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 8 (see paragraph 13).



F/A-18-WRM-(152-1)02-CATI

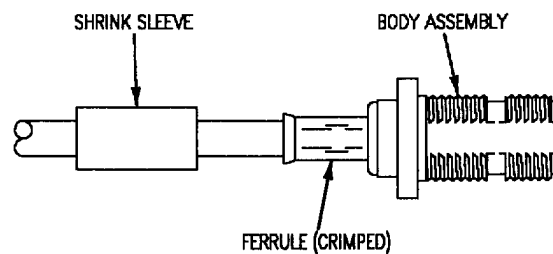
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(152-2)02-CATI

Figure 11. 1119-079-A721 and M39012/03-0501 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



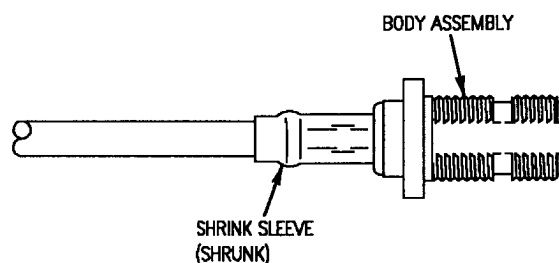
F/A-18-WRM-(152-3)02-CATI

5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion. Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(152-4)02-CATI

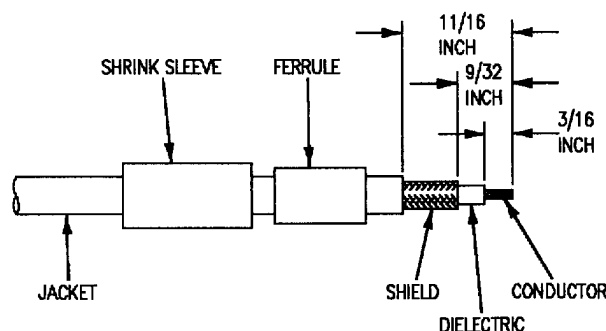
Figure 11. 1119-079-A721 and M39012/03-0501 Coaxial Connector Repair (Sheet 2)



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

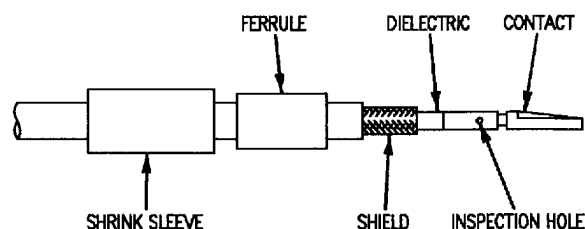
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



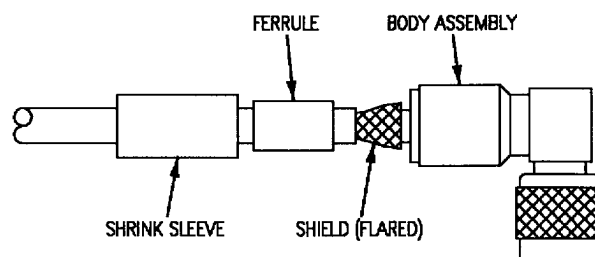
F/A-18-WRM-(148-1)02-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Blue) turret heat and M22520/1-01 crimp tool handle, crimp contact using setting 8 (see paragraph 13).



F/A-18-WRM-(153-1)02-CAT1

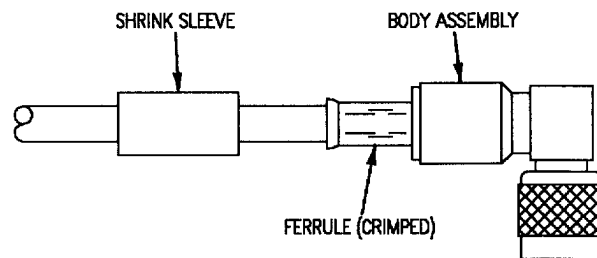
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(153-2)02-CAT1

Figure 12. M39012/05-0501 and M39012/05-0505 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(153-3)02-CATI

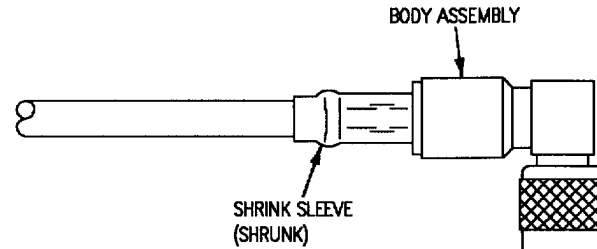
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(153-4)02-CATI

**Figure 12. M39012/05-0501 and M39012/05-0503 Coaxial Connector Repair
(Sheet 2)**

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****19900 (MIL-C-3643) N TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Tinning Center Conductor	3
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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index

Reference Designation	Figure No.
69P-F001E	8
69P-F001F	8

1. DESCRIPTION.

2. The 10567 and 19900 coaxial connectors are single conductor, soldered pin plugs (RG 393 cable) and have a temperature range of -85° to +257°F.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
-	Torque Wrench, 0 to 75 Inch-pounds

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

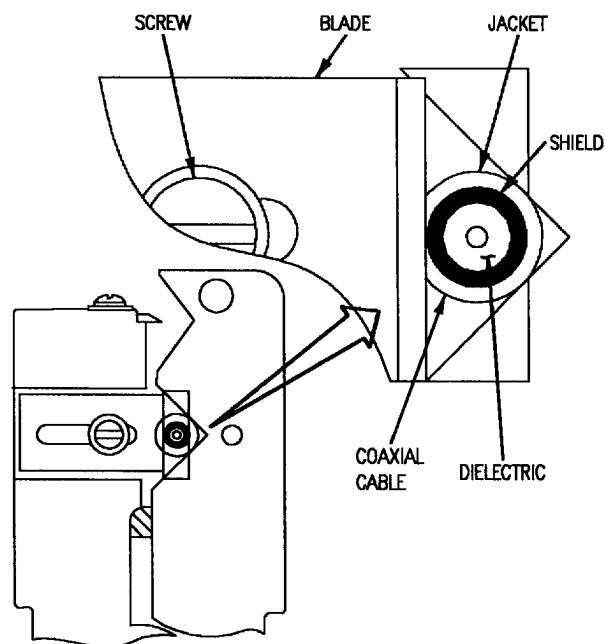
6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 1.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CAT1

Figure 1. Jacket Cut Adjustment

c. Adjust other blade so blade does not touch cable.

d. If necessary, repeat steps 6a through 6c until blade cuts through jacket without damaging shield.

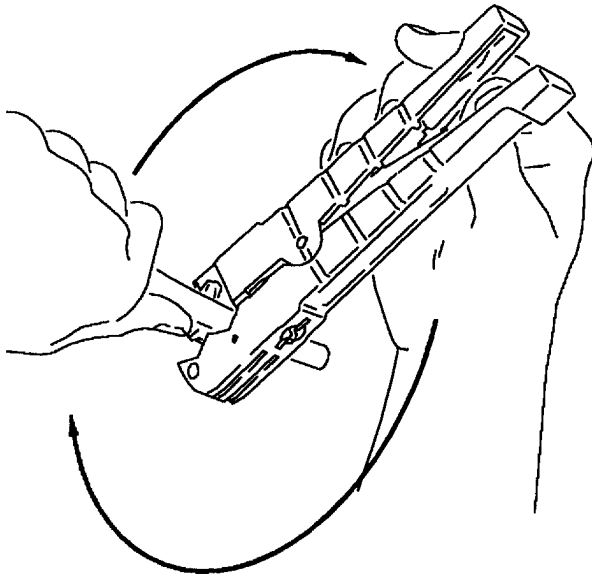
7. USE.

- a. Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket.



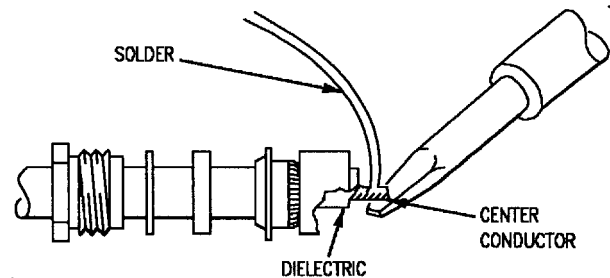
F/A-18-WRM-(409-1)01-SCAN

Figure 2. Operation**8. SOLDERING.**

9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.

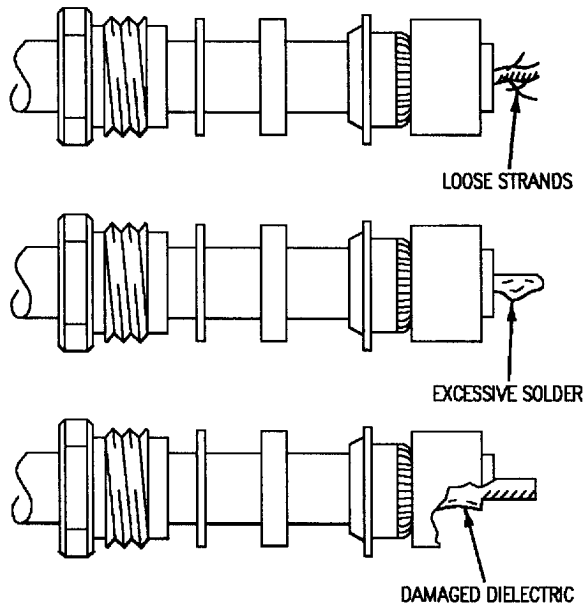


F/A-18-WRM-(223-1)02-CAT1

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

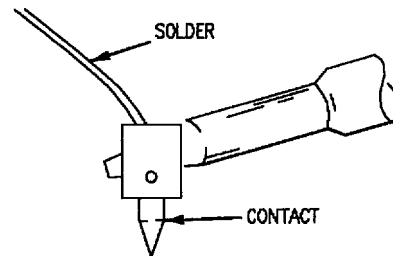


F/A-18-WRM-(223-2)02-CATI

Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR.

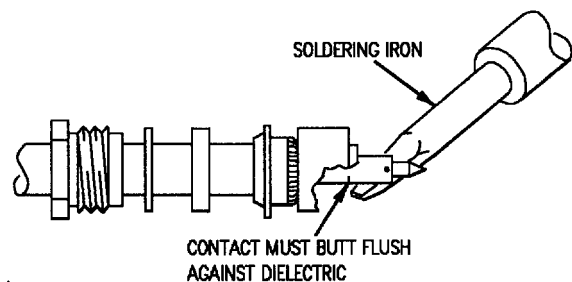
- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup half full with solder. Avoid getting solder on outside of contact. See figure 5.



F/A-18-WRM-(223-3)02-CATI

Figure 5. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 6.

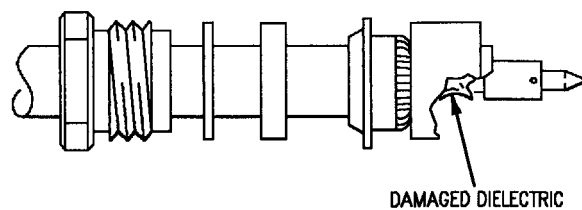


F/A-18-WRM-(223-4)02-CATI

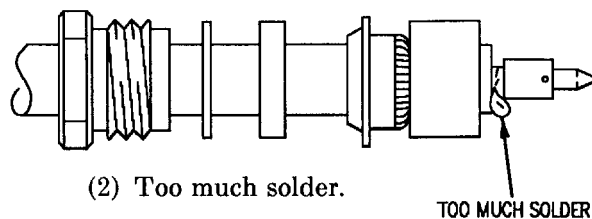
Figure 6. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 7.

(1) Damaged dielectric.



(2) Too much solder.



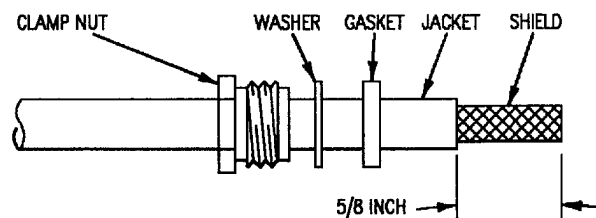
F/A-18-WRM-(223-5)02-CAT I

**Figure 7. Unacceptable Conditions
After Soldering Contact**

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-164 adjusted for cable, remove 5/8-inch of jacket. See paragraph 5.



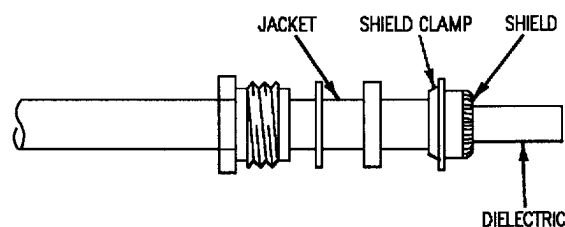
F/A-18-WRM-(192-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield stands must be smoothly and evenly distributed around face of shield clamp.

3. Comb and flare out shield. Fold Shield over shield clamp and trim even with face of shield clamp.



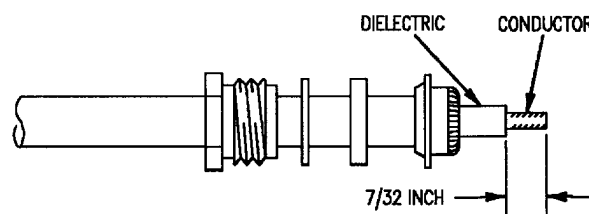
F/A-18-WRM-(192-2)02-CATI

Figure 8. 19900 (MIL-C-3643) Coax Connector Repair (Sheet 1)



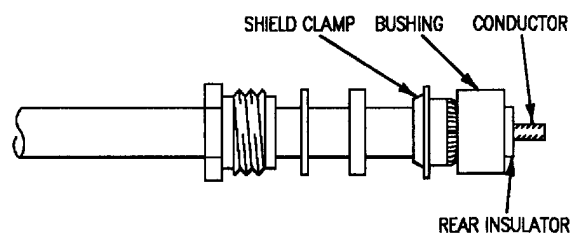
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

4. Using sharp knife, remove $7/32$ -inch of dielectric.



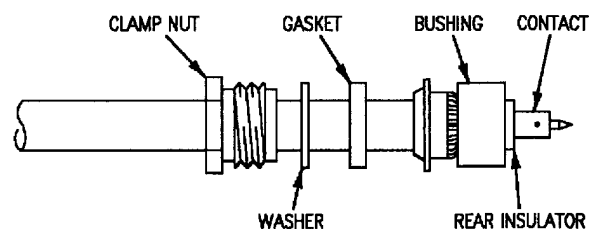
F/A-18-WRM-(192-3)02-CATI

5. Slide bushing and rear insulator on cable.



F/A-18-WRM-(192-4)02-CATI

6. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(192-5)02-CATI

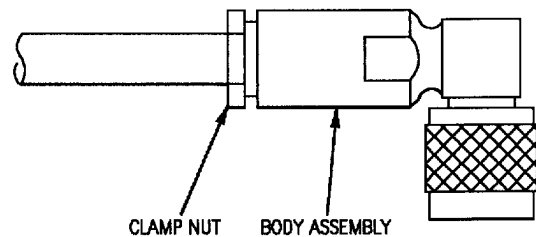
Figure 8. 19900 (MIL-C-3643) Coax Connector Repair (Sheet 2)

7. Slide body assembly over contact until it stops. Slide gasket, washer, and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

8. While supporting body assembly, torque clamp nut to 40 inch-pounds minimum.



F/A-18-WRM-(192-6)02-CATI

Figure 8. 19900 (MIL-C-3643) Coax Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****E-7984 AND 2115-1-5 (MIL-C-39012) BNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

3. PROCEDURE.

Reference
Designation

Figure No.

61J-W106
61P-Y106

9
10



1. DESCRIPTION.

2. The E-7984 and 2115-1-5 connectors are mating BNC type radio frequency coaxial connectors. They have a temperature range of -85° to +329°F. They are not repairable.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

Support Equipment Required

Part Number or
Type Designation

Nomenclature

HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

5. COAXIAL CABLE STRIPPERS 45-165
ADJUSTMENT AND USE

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

Materials Required

Specification
or Part Number

Nomenclature

MS23053/5-XXX-0	Shrink Sleeve
-----------------	---------------

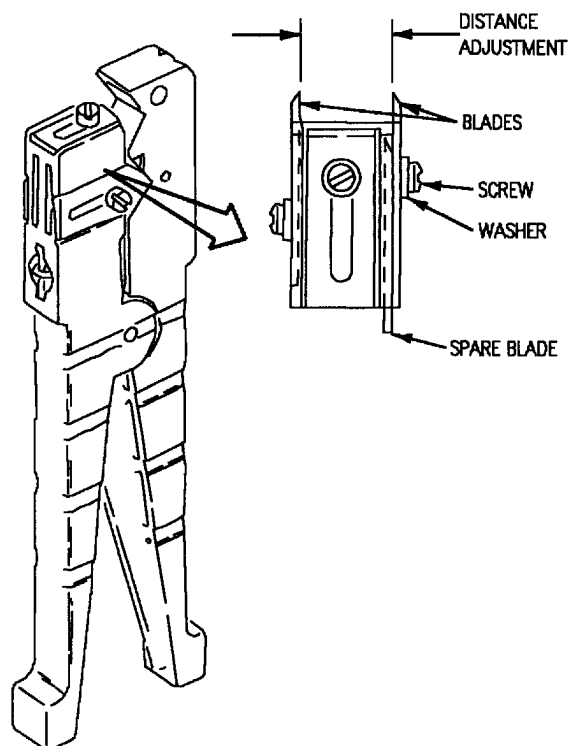
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- c. Install screws and tighten handtight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

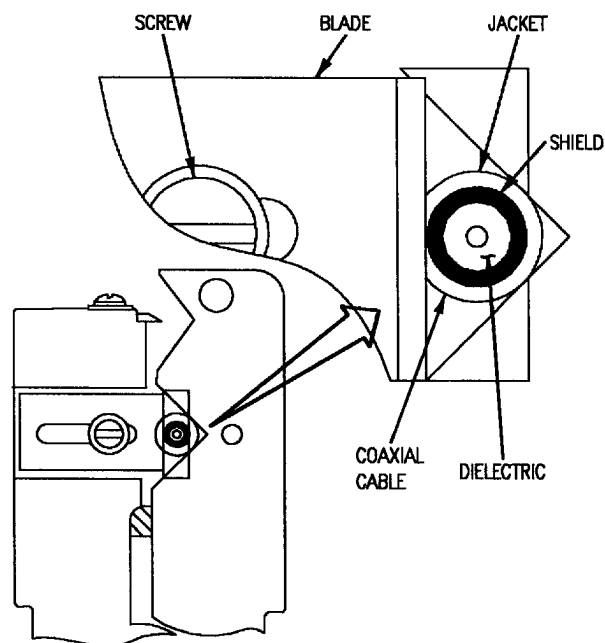
Figure 1. Distance Adjustment

7. DEPTH OF CUT ADJUSTMENT

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.
- b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



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Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.

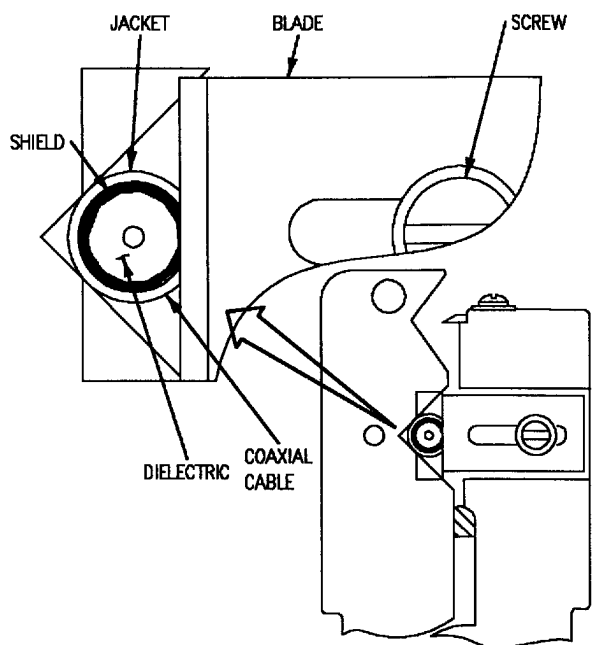


Figure 3. Shield Cut Adjustment

8. USE.

a. Position stripper on cable so that blades face down. See figure 4.

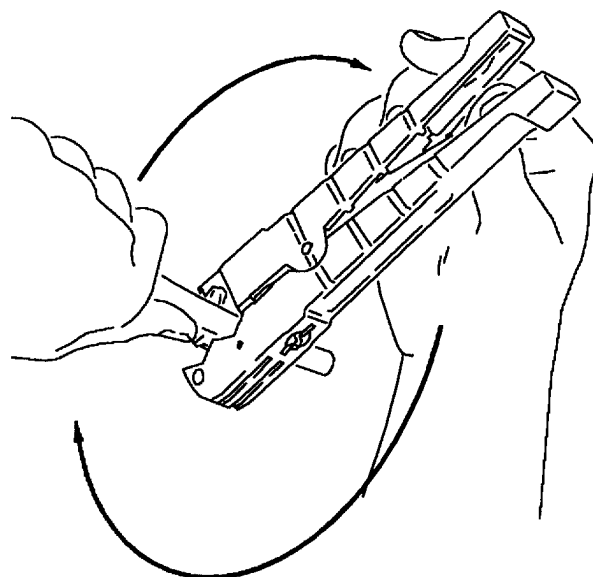
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle blade side of stripper. Six to eight rotations will necessary to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

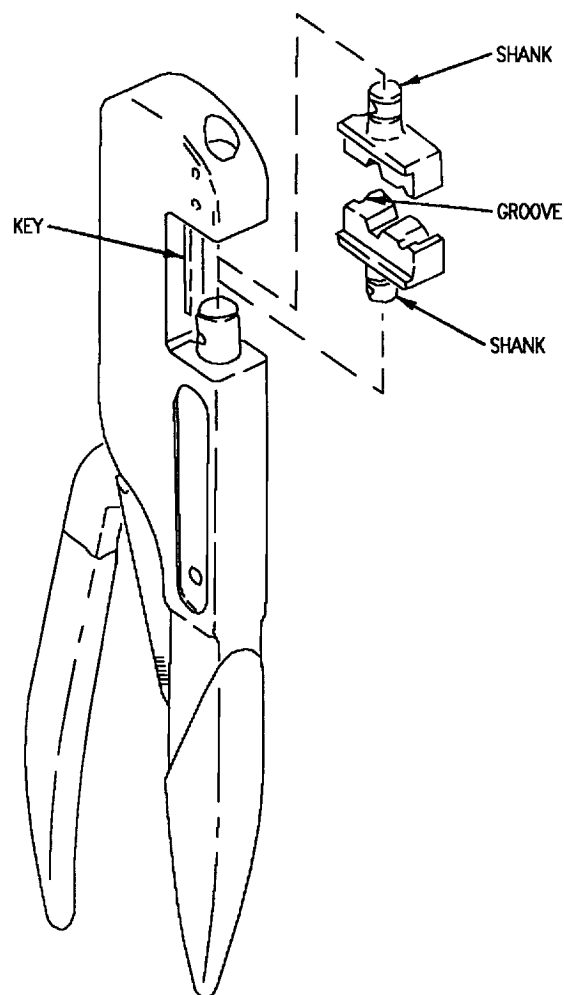
Figure 4. Operation

9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

10. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.

b. Close handle to make sure dies are correctly seated and locked in place.

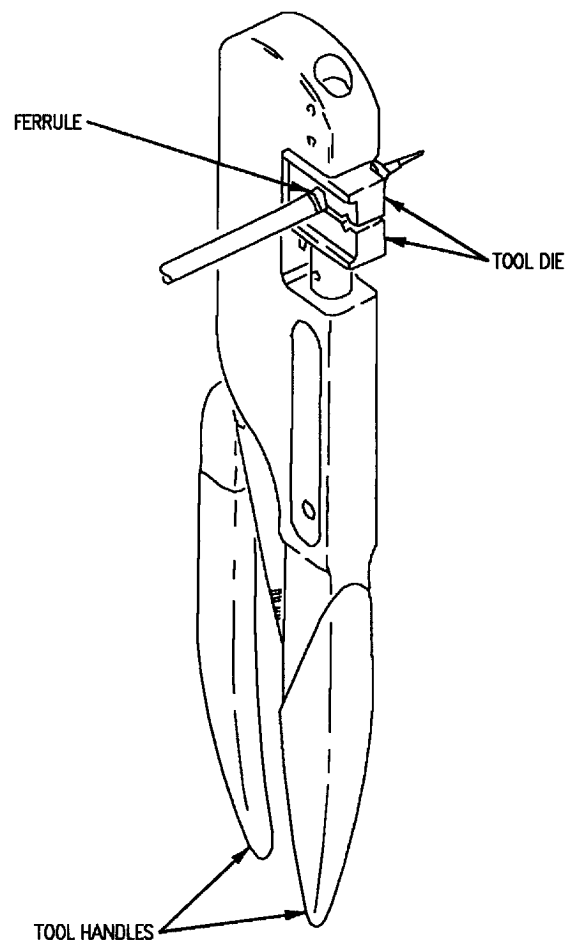


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

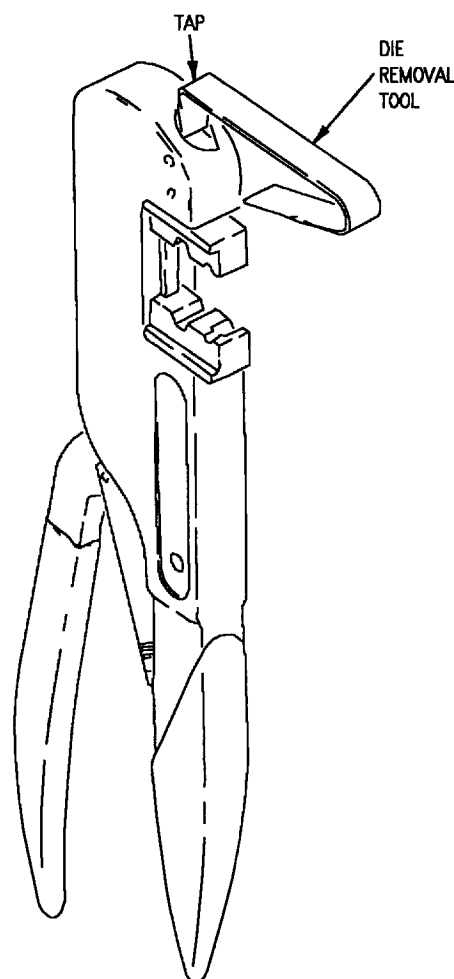


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

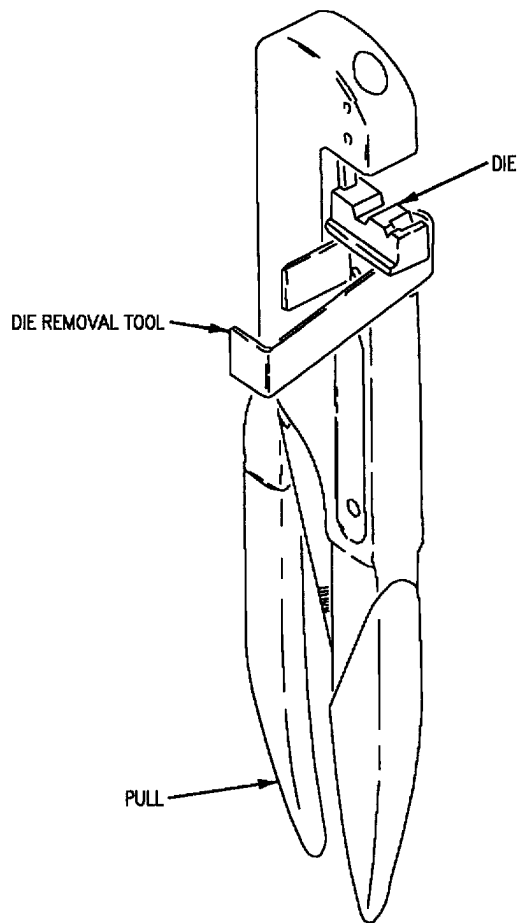


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY, ADJUSTMENTS, AND USE.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

14. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

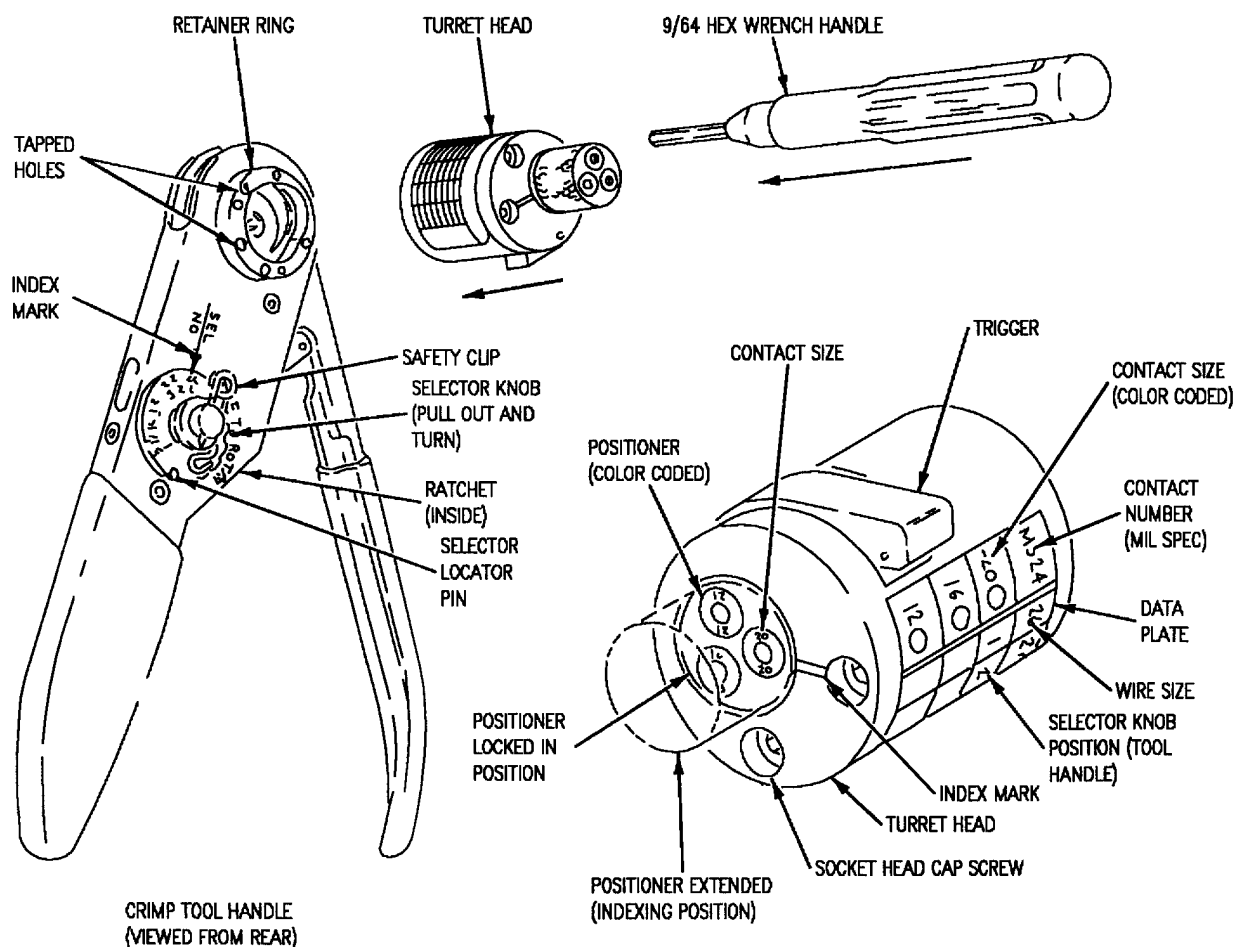
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector position.

a. Press trigger of turret head releasing positioner to extended indexing position. See figure 9.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64-inch hex wrench.

d. To remove, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

15. ADJUSTING TURRET HEAD.

- a. Press trigger on turret head, releasing positioner to extended (indexing) position.
- b. Rotate positioners until color coded positioner is lined up with index mark.
- c. Press positioner into turret head until it snaps into locked position.

16. SETTING SELECTOR KNOB.

- a. Remove the safety clip lock from selector knob.
- b. Raise selector knob and rotate to selector number found on data plate.
- c. Replace safety clip.

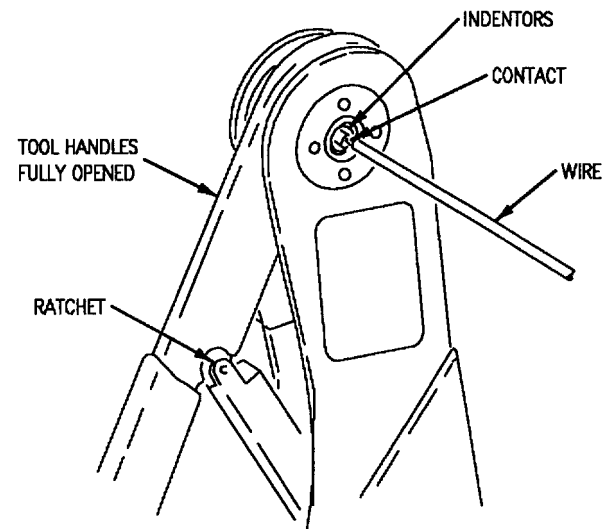
17. CONTACT CRIMPING

- a. Insert contact and coax into crimp tool indentors on front of tool until contact bottoms in positioner/turret. (See figure 10, detail A).

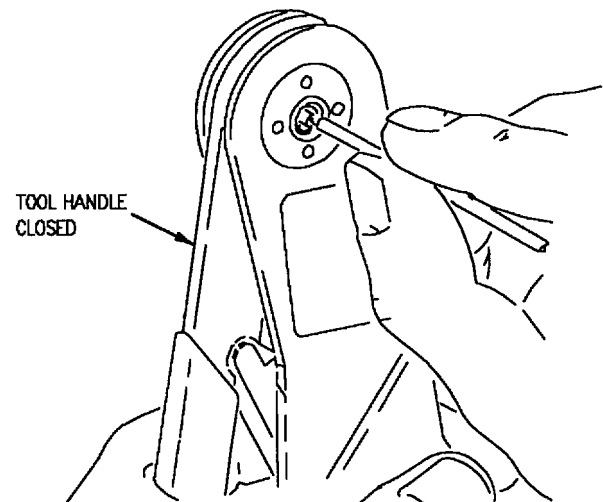
NOTE

Crimp tool will not release until crimping cycle is completed.

- b. Hold coax in place and squeeze tool handles together smoothly until ratchet releases and tool opens. (See figure 10, detail B).
- c. Remove crimped contact from tool and inspect crimp.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A**DETAIL B**

F/A-18-WRM-(407-1)01-SCAN

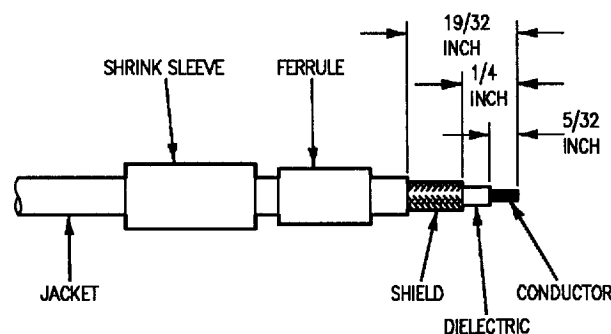
Figure 10. Contact Crimping

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24 vdc battery voltage exists in some wiring.

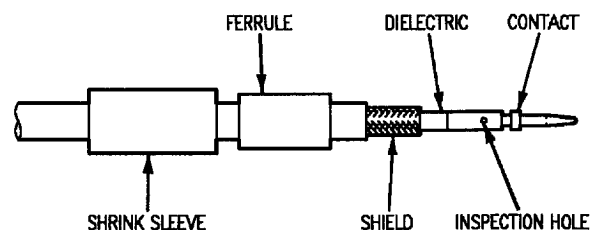
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



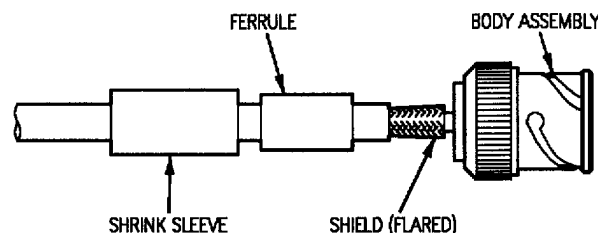
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Red) turret head and M22520/1-01 crimping tool handle. Crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-1)01-CATI

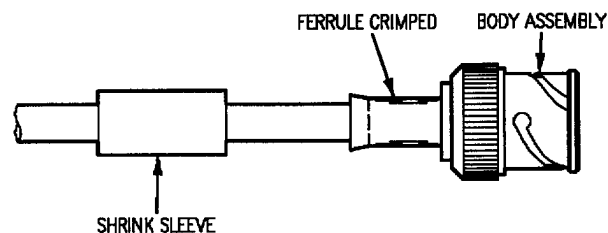
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-3)01-CATI

Figure 11. E-7984 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M2252-/1-05 die set and M22520/1-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



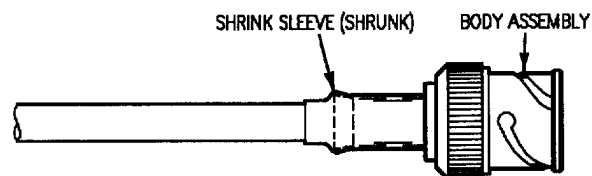
F/A-18-WRM-(340-3)01-CATI

5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion. Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



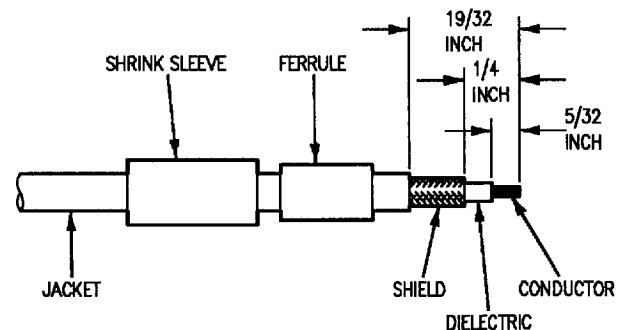
F/A-18-WRM-(350-3)01-CATI

Figure 11. E-7984 Coaxial Connector Repair (Sheet 2)

CAUTION

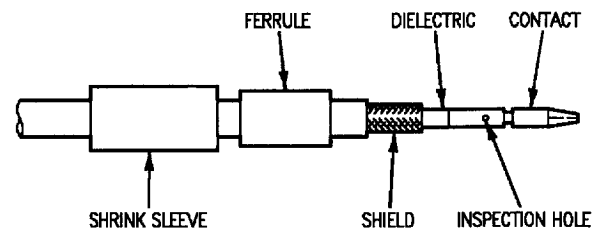
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off 24vdc battery voltage exists in some wiring. To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric (see paragraph 9).



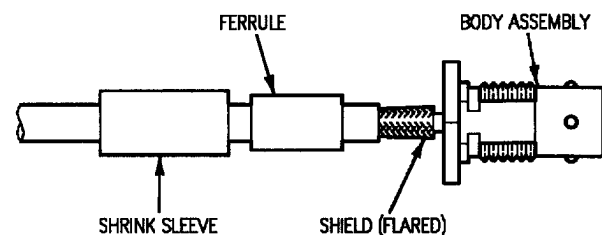
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

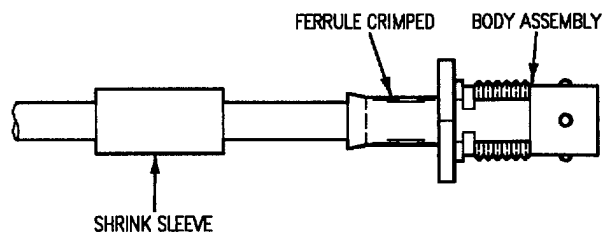
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-2)01-CATI

Figure 12. 2115-1-5 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



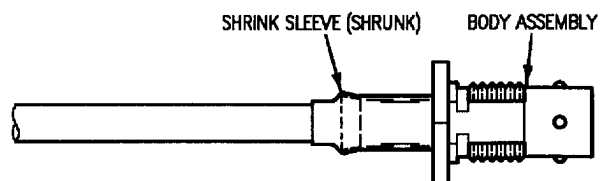
F/A-18-WRM-(340-2)01-CAT I

5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion. Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(350-2)01-CAT I

Figure 12. 2115-1-5 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M39012-XX-XXXX (MIL-C-39012) BNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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M39012/16-0503 Coaxial Connector Repair, Figure 11	10
M39012/19-0503 Coaxial Connector Repair, Figure 14	16
M39012/20-0503 Coaxial Connector Repair, Figure 13	14
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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

Support Equipment Required

Reference
Designation

Figure No.

Part Number or
Type Designation

Nomenclature

61J-W102
61P-R162
61P-W097B
61P-W097E
61P-W102
61P-Y102
61P-Z105B
61P-Z162

14
13
11
12
11
11
11
11

HT-900

Heat Tool

3308AS100

Repair Set - Wire and
Connector

1317AS100-1

Nitrogen Servicing
Unit - NAN-3

Materials Required

Specification
or Part Number

Nomenclature

1. DESCRIPTION.

MS23053/5-XXX-0

Shrink Sleeve

2. These are single conductor, crimp type coax connectors. There are four types of connectors, straight plug, straight in-line receptacle, panel mount receptacle, and right angle plug. These connectors have a temperature range of -85° to +392°F. They are not repairable.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-165 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

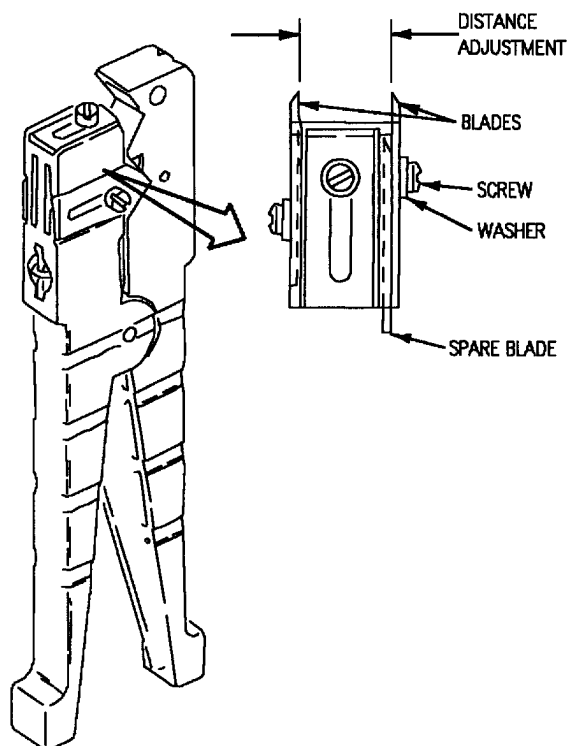
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- c. Install screws and tighten finger tight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

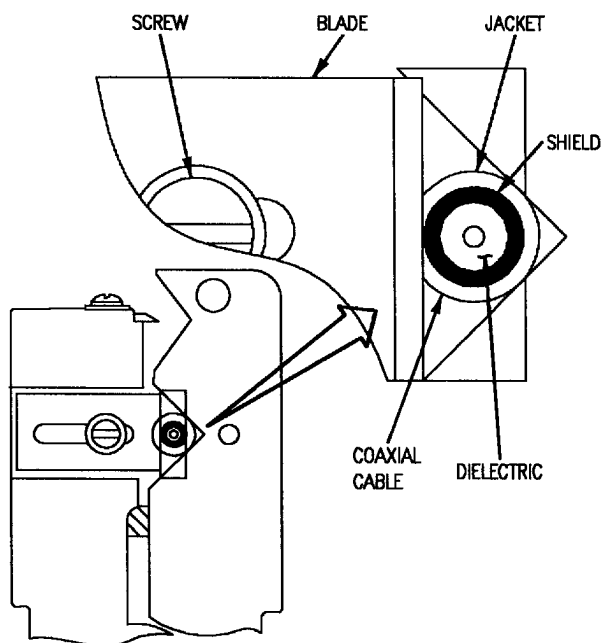
7. DEPTH ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



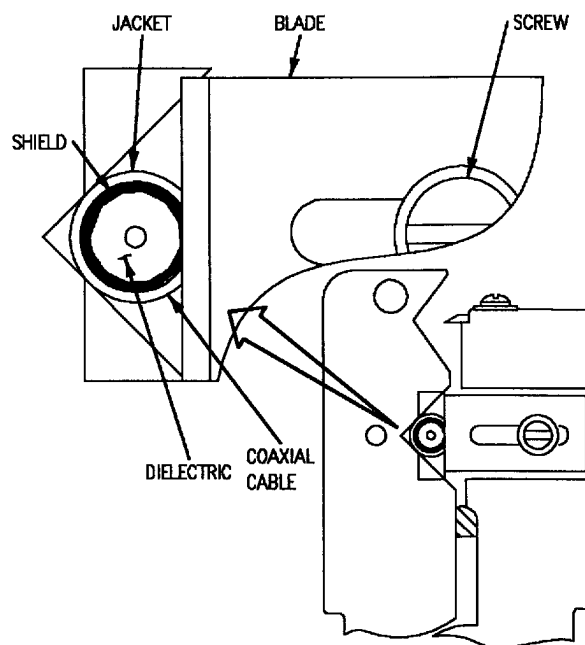
F/A-18-WRM-(409-3)01-CATI

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CATI

Figure 3. Shield Cut Adjustment

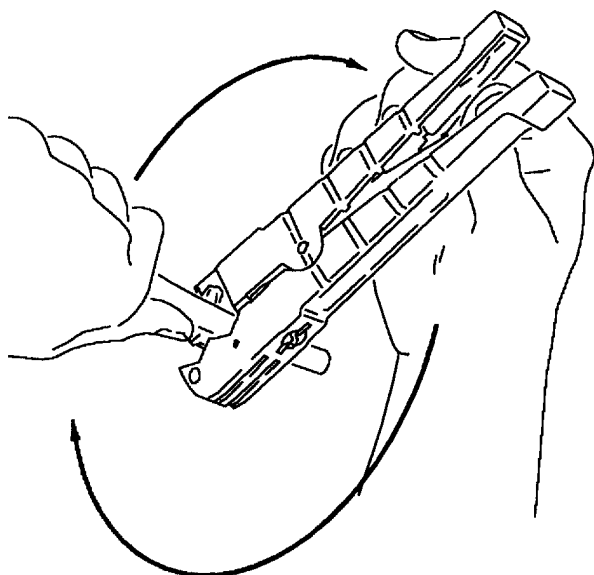
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

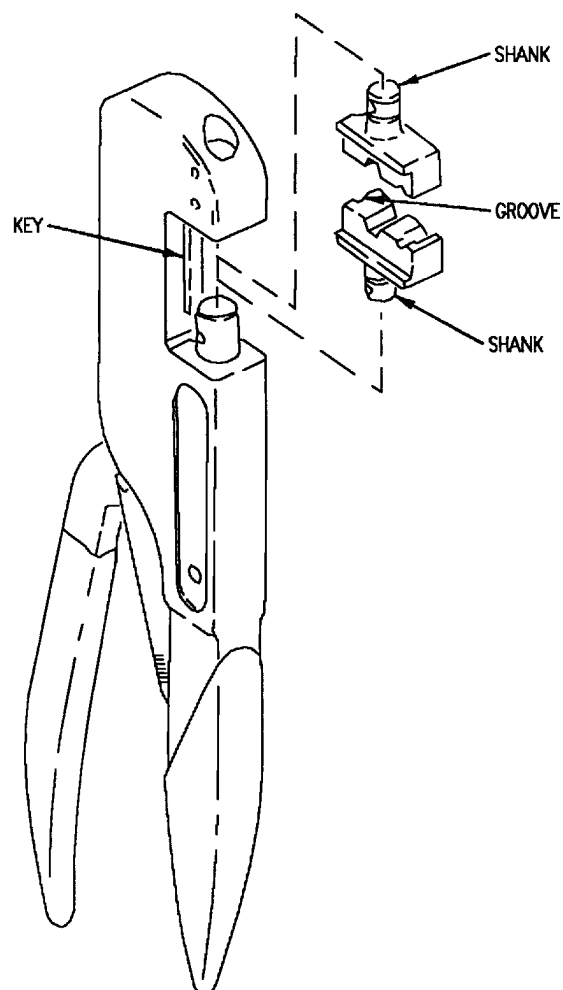
- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.

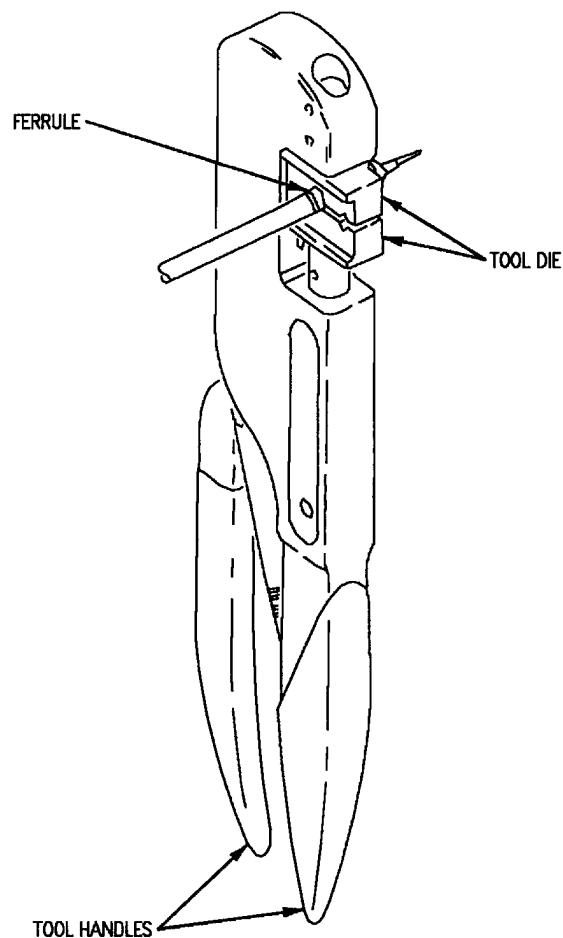


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

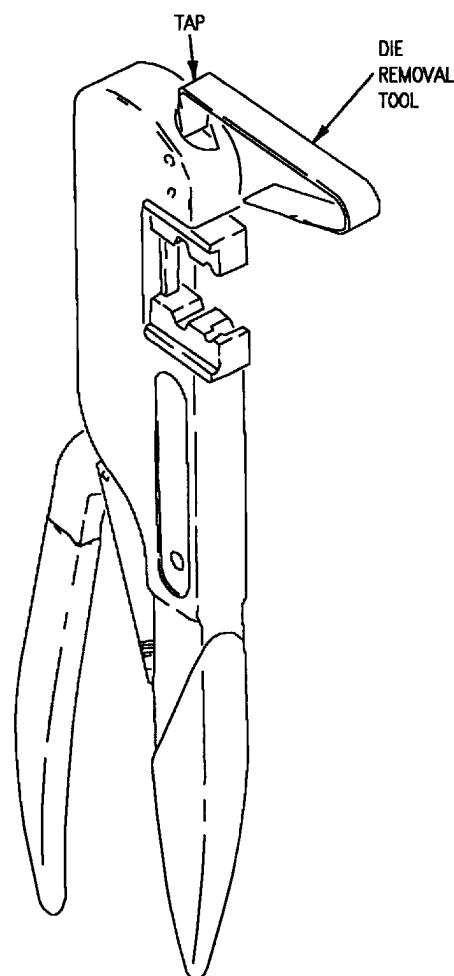


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

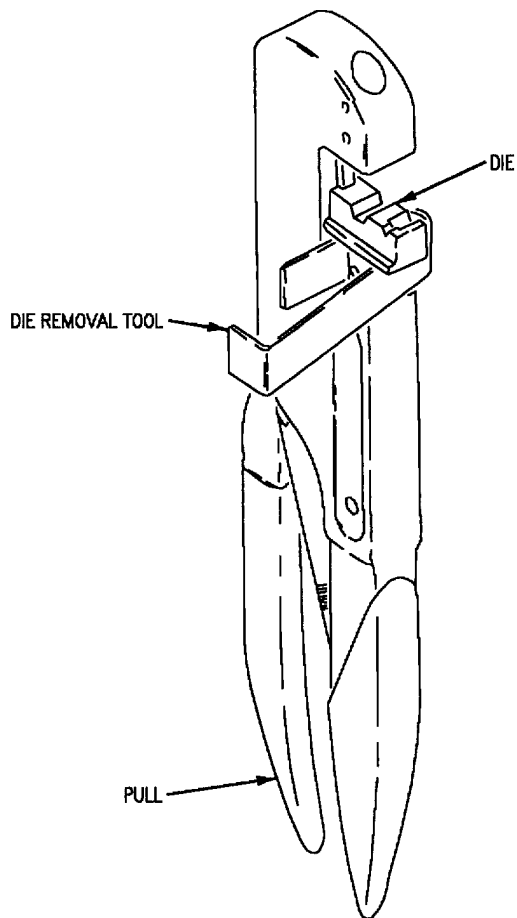


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY, ADJUSTMENTS, AND USE.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

14. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

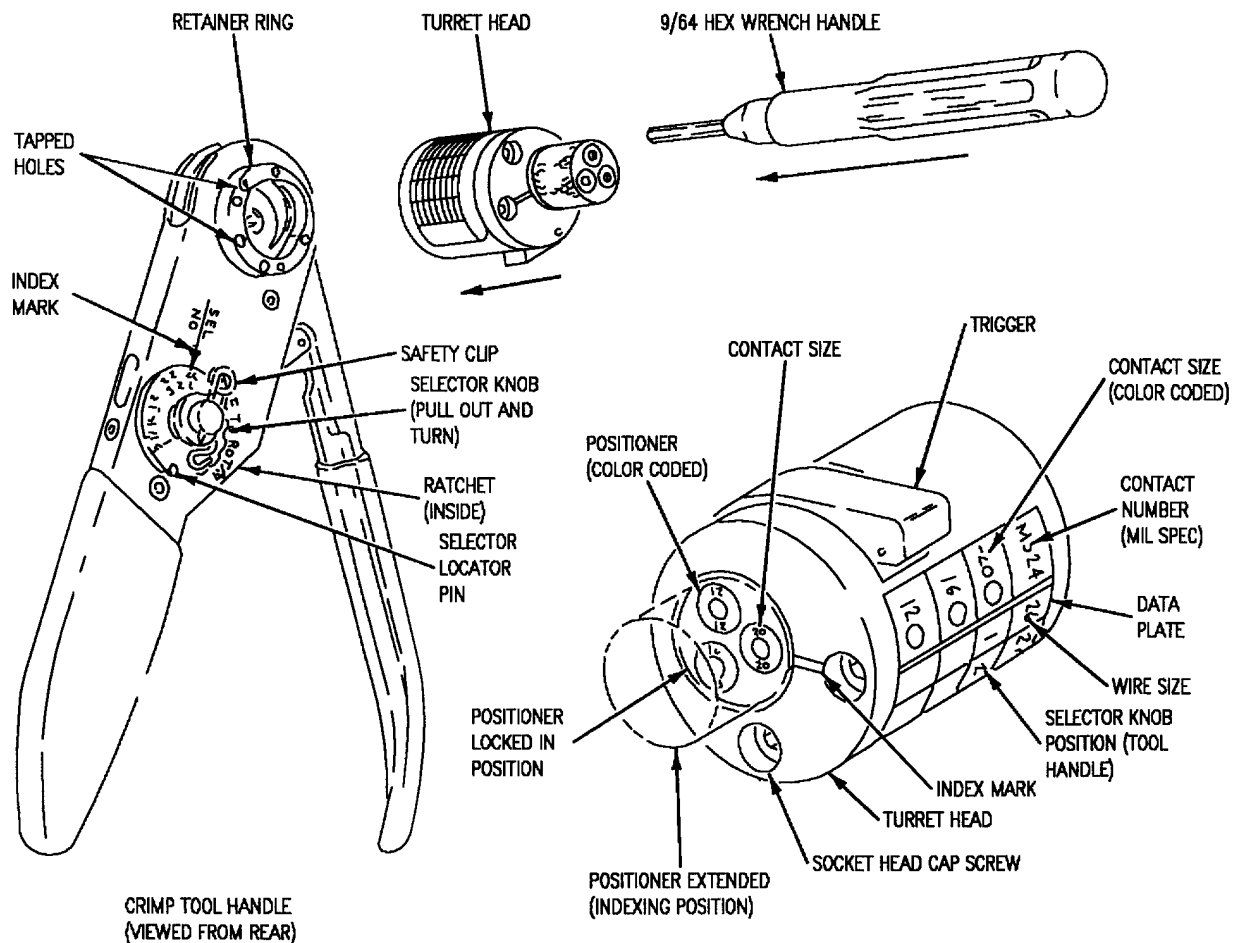
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector position.

a. Press trigger of turret head releasing positioner to extended (indexing) position. See figure 9.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64-inch wrench.

d. To remove, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head.

18. ADJUSTING TURRET HEAD.

a. Press trigger on turret head, releasing positioner to extended (indexing) position. Coded positioner is lined up with index mark.

b. Press positioner into turret head until it snaps into locked position.

19. SETTING SELECTOR KNOB.

a. Remove the safety clip lock from selector knob.

b. Raise selector knob and rotate to selector number found on data plate.

c. Replace safety clip.

20. CONTACT CRIMPING.

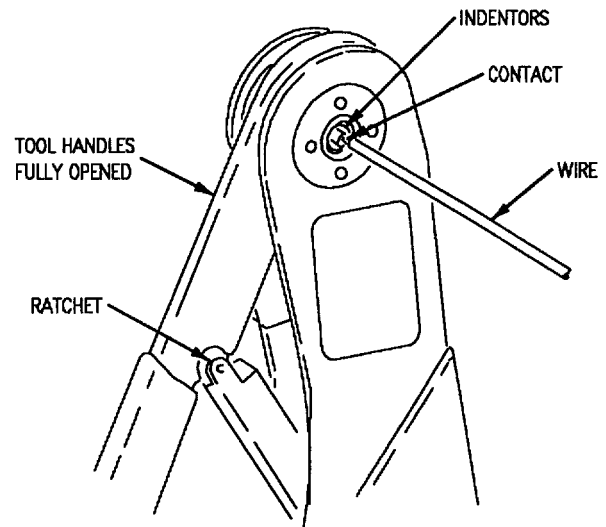
a. Insert contact and coax into crimp tool indentors on front of tool until contact bottoms in positioner/turret. (See figure 10, detail A).

NOTE

Crimp tool will not release until crimping cycle is completed.

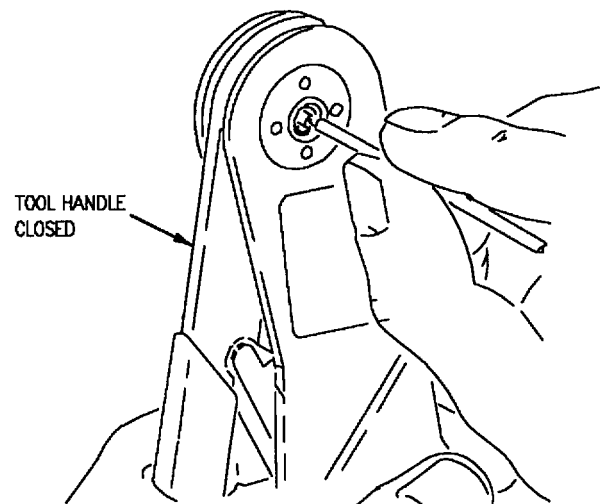
b. Hold coax in place and squeeze tool handles together smoothly until ratchet releases and tool opens (See figure 10, detail B).

c. Remove crimped contact from tool and inspect crimp.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A



DETAIL B

F/A-18-WRM-(407-1)01-SCAN

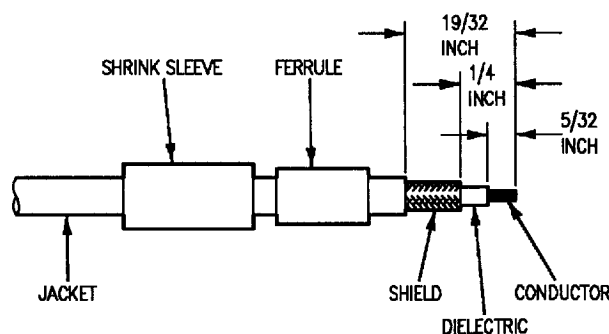
Figure 10. Contact Crimping

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

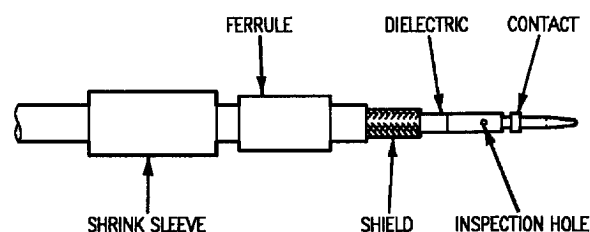
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



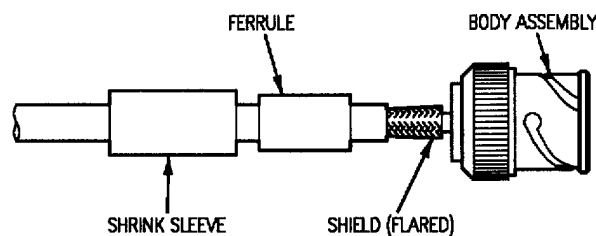
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact setting 5 (see paragraph 13).



F/A-18-WRM-(320-1)01-CATI

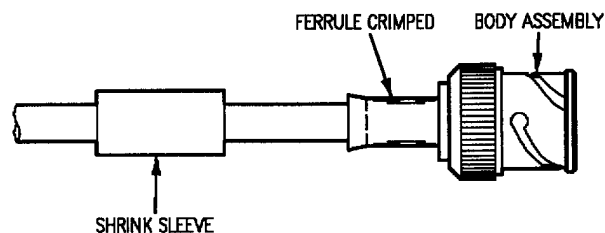
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-3)01-CATI

Figure 11. M39012/16-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(340-3)01-CATI

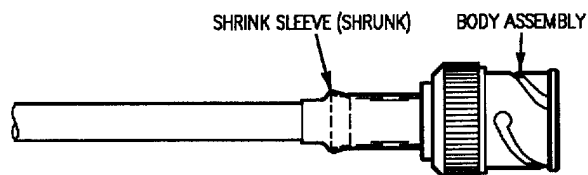
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(350-3)01-CATI

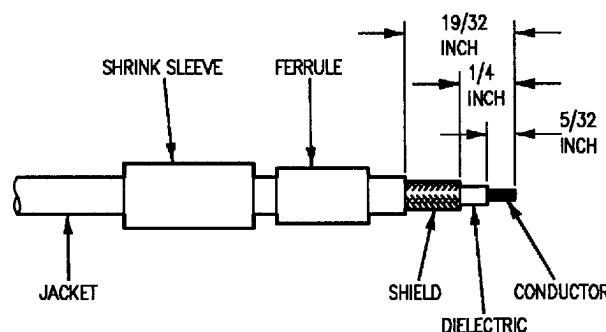
Figure 11. M39012/16-0503 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring to equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

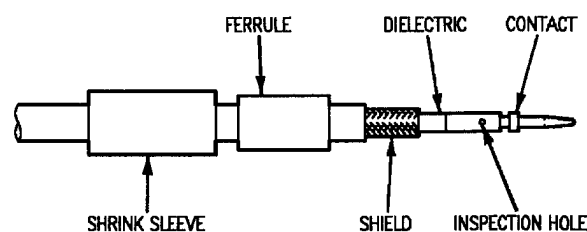
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



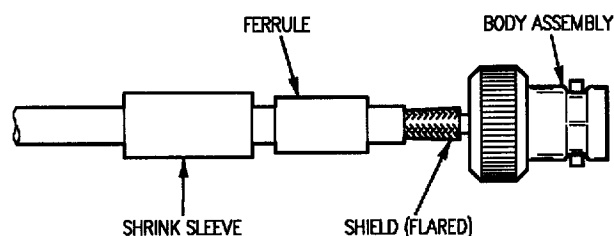
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/5-09 die set and M22520/5-01 crimping tool frame, crimp contact in the B cavity of die set (see paragraph 9).



F/A-18-WRM-(320-1)01-CATI

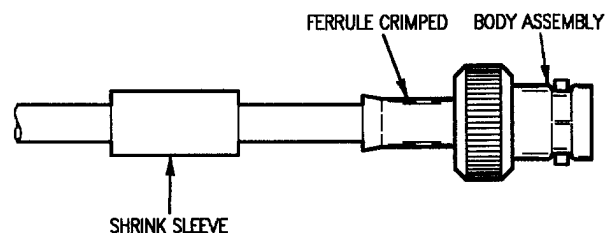
3. Flare shield. slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-1)01-CATI

Figure 12. KC-39-134-M07 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(340-1)01-CATI

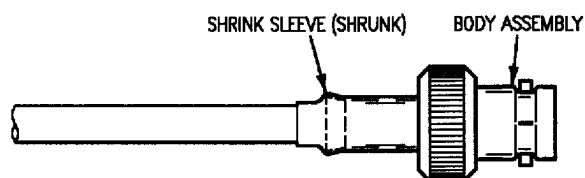
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(350-1)01-CATI

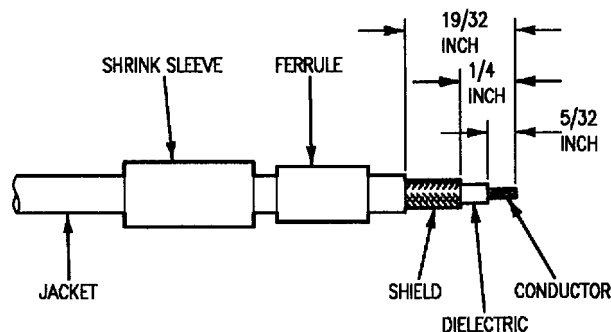
Figure 12. KC-39-134-M07 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring to equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

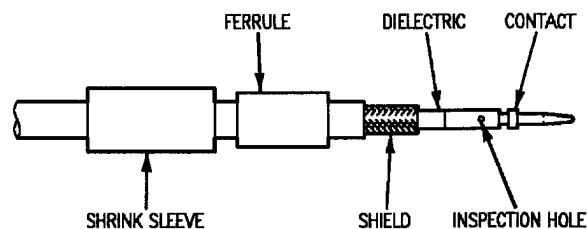
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



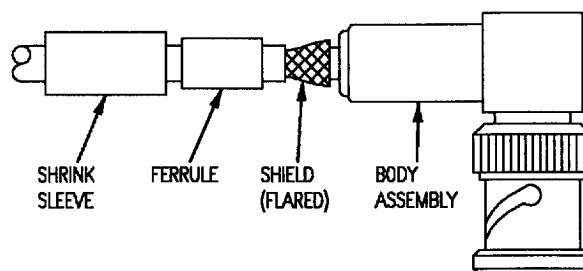
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Green) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

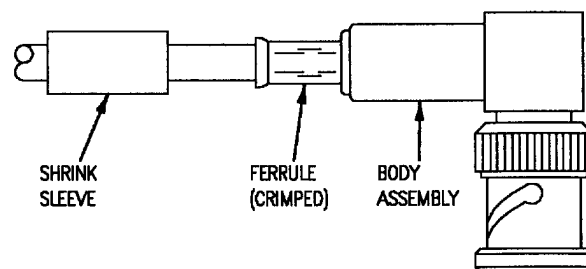
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(195-1)02-CATI

Figure 13. M39012/20-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(195-2)02-CAT I

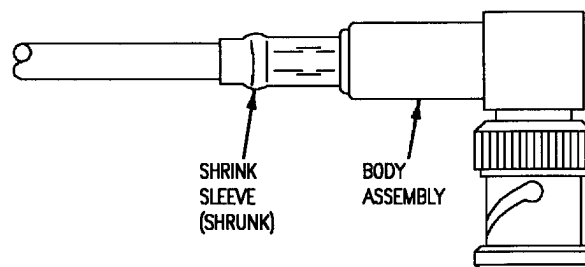
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(195-3)02-CAT I

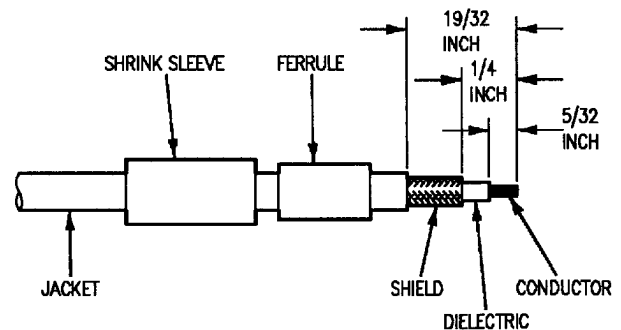
Figure 13. M39012/20-0503 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring to equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

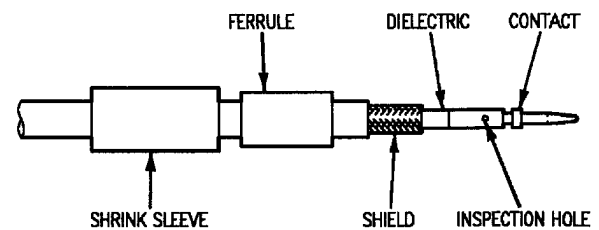
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife, remove 5/32-inch of dielectric.



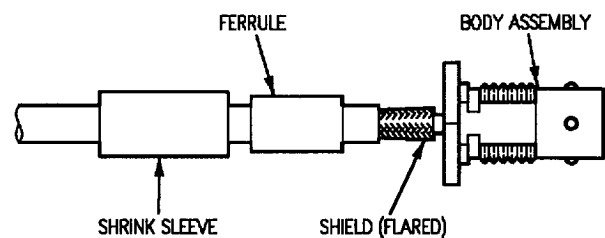
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Red) turret and M22520/15-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

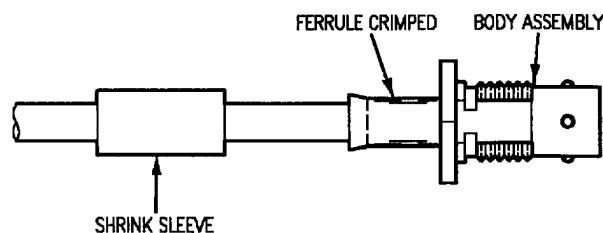
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(330-2)01-CATI

Figure 14. M39012/19-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(340-2)01-CATI

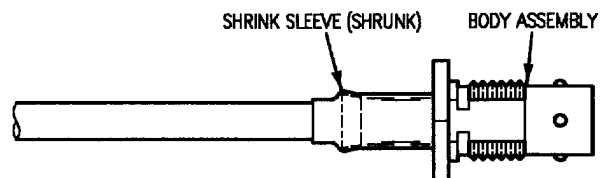
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(350-2)01-CATI

Figure 14. M39012-19-0503 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL MAINTENANCE

WIRING REPAIR WITH PARTS DATA

39100-10 (MIL-C-39012) BNC TYPE COAX CONNECTOR REPAIR

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index

Reference Designation	Figure No.
69P-F001C	7

1. DESCRIPTION.

2. The 39100-10 coaxial connector is a single conductor, soldered pin plug and has a temperature range of -85° to +257°F.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector
-	Torque Wrench, 0 to 50 Inch-Pounds

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

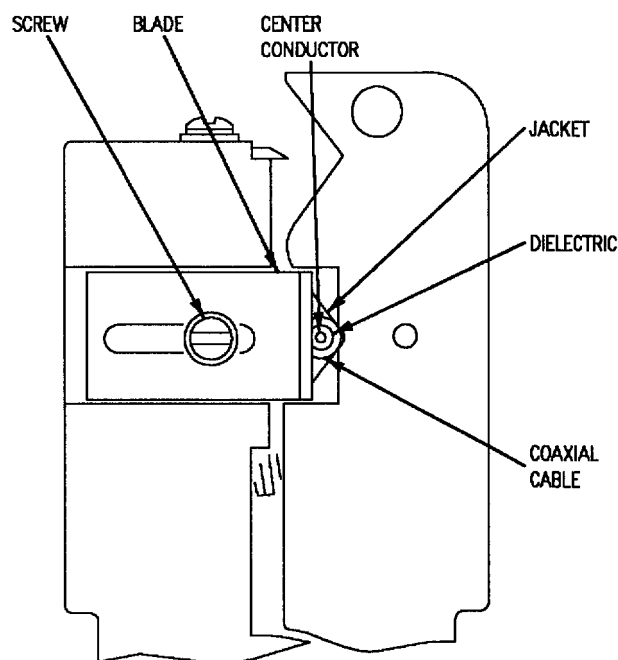
6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 1.

b. Adjust blade so it cuts through jacket, shield, and dielectric without nicking center conductor and tighten screw.



F/A-18-WRM-(333-1)02-CAT1

Figure 1. Stripping Adjustment

c. Adjust other blade so blade does not touch cable.

d. If necessary, repeat steps 6a through 6c until blade cuts through dielectric without damaging center conductor.

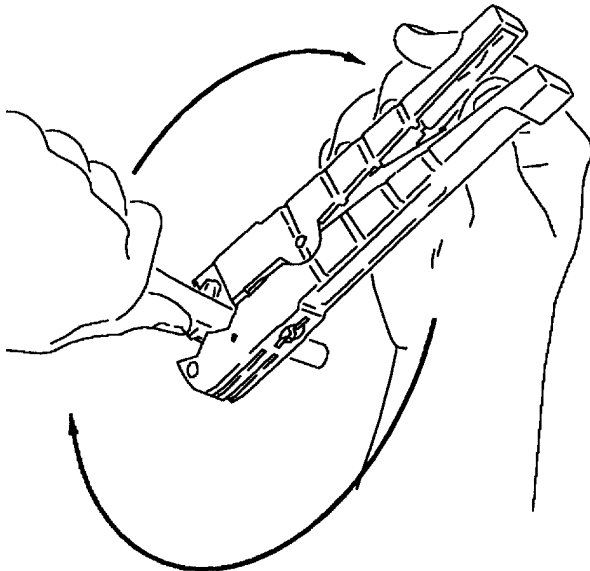
7. USE.

- a. Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped material.



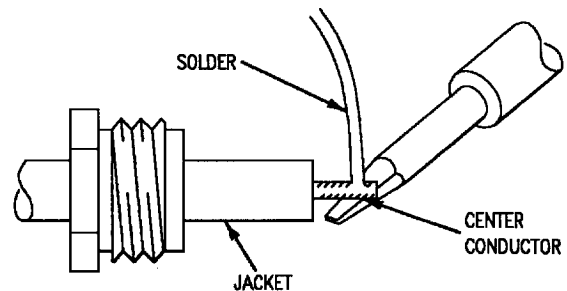
F/A-18-WRM-(409-1)01-SCAN

Figure 2. Operation**8. SOLDERING.**

9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.

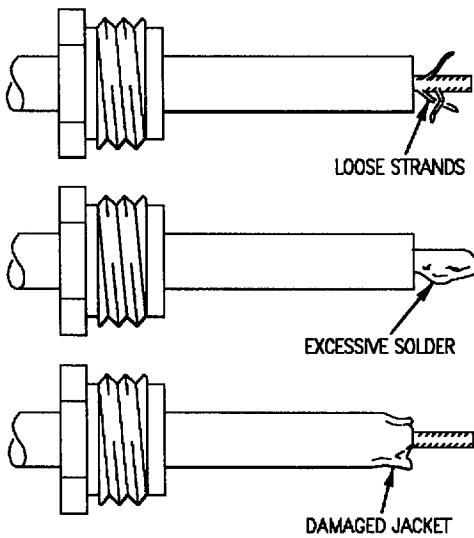


F/A-18-WRM-(334-1)02-CATI

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged jacket.



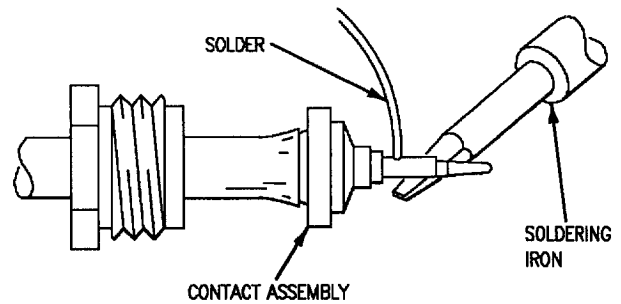
F/A-18-WRM-(334-2)02-CAT1

Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Apply heat to contact and feed solder through inspection hole on contact. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 5.

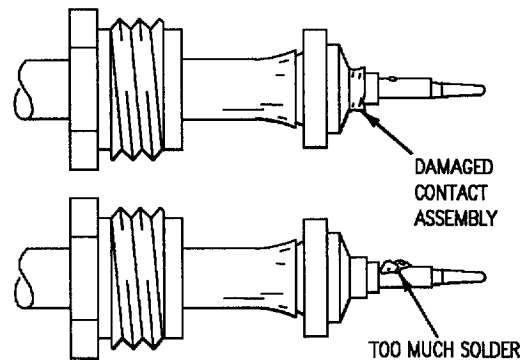


F/A-18-WRM-(334-3)02-CAT1

Figure 5. Soldering Contact to Center Conductor

c. Examine solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 6.

- (1) Damaged contact assembly.
- (2) Too much solder.



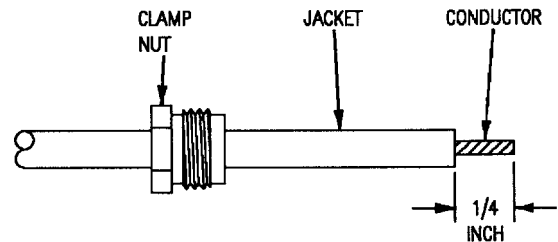
F/A-18-WRM-(334-4)02-CAT1

Figure 6. Unacceptable Conditions After Soldering Contact

CAUTION

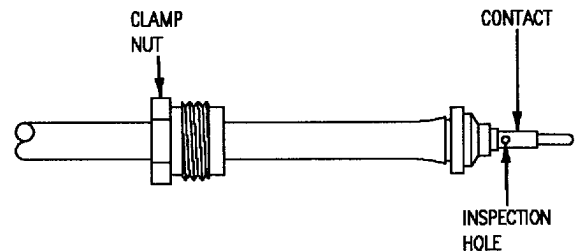
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24 vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut over cable. Using coaxial stripper 45-163, remove 1/4-inch of jacket, shield, and dielectric. See paragraph 5. Using W60-3 soldering iron, tin center conductor. See paragraph 10.



F/A-18-WRM-(277-1)02-CATI

2. Slide contact assembly over center conductor and between dielectric and shield until contact assembly bottoms against dielectric. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.

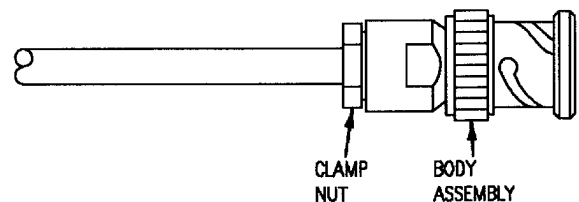


F/A-18-WRM-(277-2)02-CATI

CAUTION

To prevent damage to connector, do not allow connector body to turn while tightening clamp nut.

3. Insert contact assembly into body assembly. Slide clamp nut forward and engage threads. While supporting body assembly, tighten clamp nut. Torque nut 25 inch-pounds.



F/A-18-WRM-(277-3)02-CATI

Figure 7. 39100-10 (MIL-C-39012) Coax Connector Repair

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M39012-XX-XXXX AND 31-4372-X (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AE-WRM-000
Stripping Tools	WP010 00

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



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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index		Reference Designation to Figure Number Index	
Reference Designation	Figure No.	Reference Designation	Figure No.
60J-A001F	12	76P-F012A	13
61J-E013	11	77J-L004	12
61J-E025	12	77P-F003A	13
61J-P013	12	77P-F004	13
 61P-E013	11	77P-L001A	13
 61P-E013	10 (WP101 00)	78P-E001C	14
61P-E025	11		
61P-E047A	11		
61P-E047B	11		
61P-E047C	13		
61P-P028A	11		
61P-P028B	13		
61P-P028C	11		
61P-U030A	11		
61P-U030B	13		
61P-U030C	13		
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61P-W094B	11		
61P-W094C	11		
71J-F006	12		
71P-F006	14		
72P-A002G	10		
74J-B007	12		
74J-B008	12		
76J-F005	12		
76P-B011A	13		
76P-F001A	13		
76P-F002A	13		
76P-F004B	14		
 76P-F004E	11		
 76P-F004E	14		
76P-F005	14		

LEGEND

-  F/A-18A
 F/A-18B

1. DESCRIPTION.

2. These connectors are single conductor, crimp type coax plugs. There are two types of connectors, straight and right angle. These connectors have a temperature range of -85° to +392°F. They are not repairable.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
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MS23053/5-XXX-0	Shrink Sleeve
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3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 AND 45-165 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

6. DISTANCE ADJUSTMENT.

a. Measure distance between blades. See figure 1.

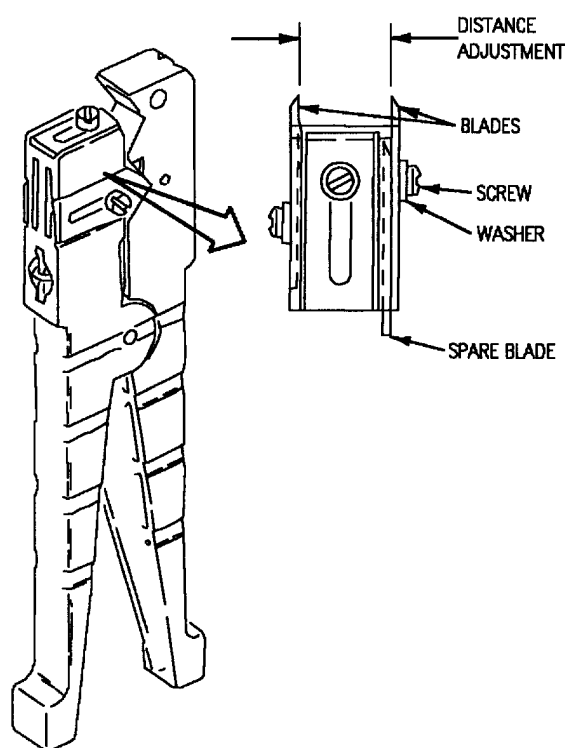
b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

c. Install screws and tighten finger tight.

d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

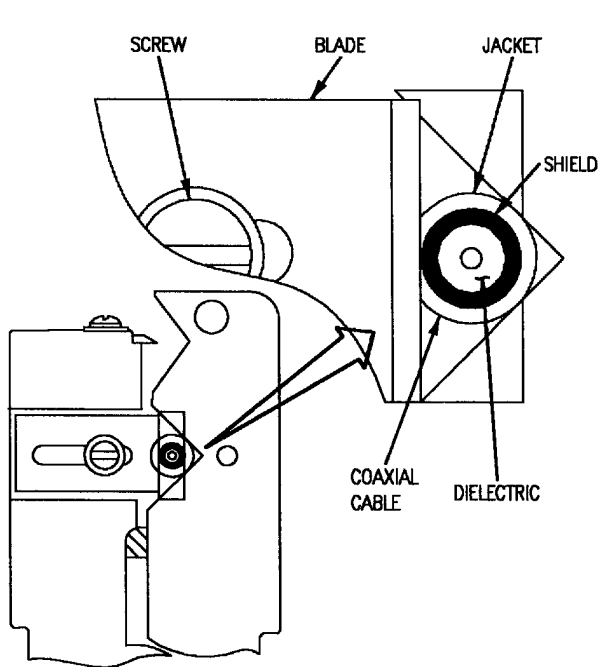
Figure 1. Distance Adjustment

7. DEPTH OF CUT ADJUSTMENT.**NOTE**

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



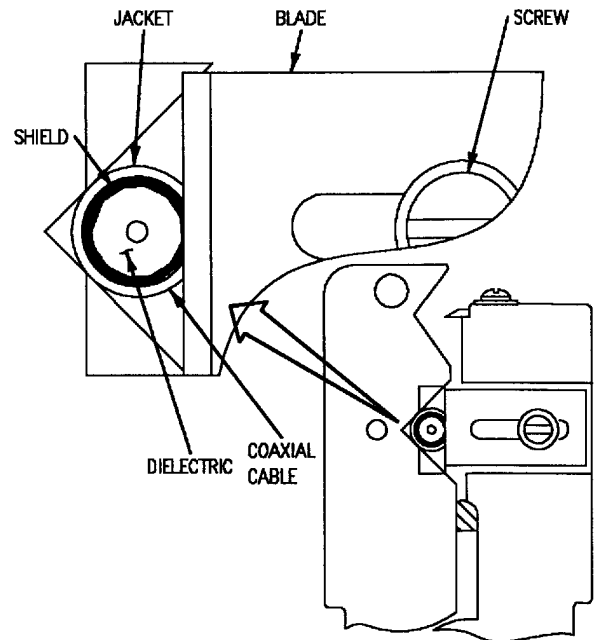
F/A-18-WRM-(409-3)01-CAT I

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CAT I

Figure 3. Shield Cut Adjustment

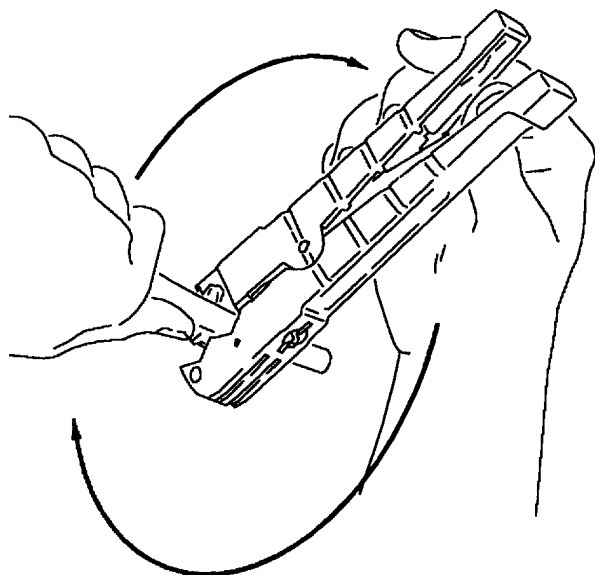
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

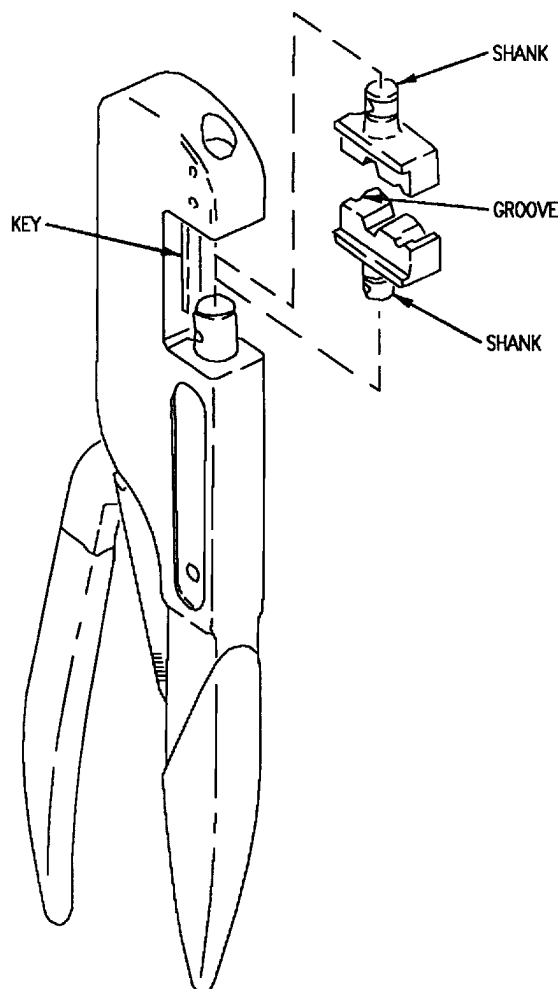
- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.

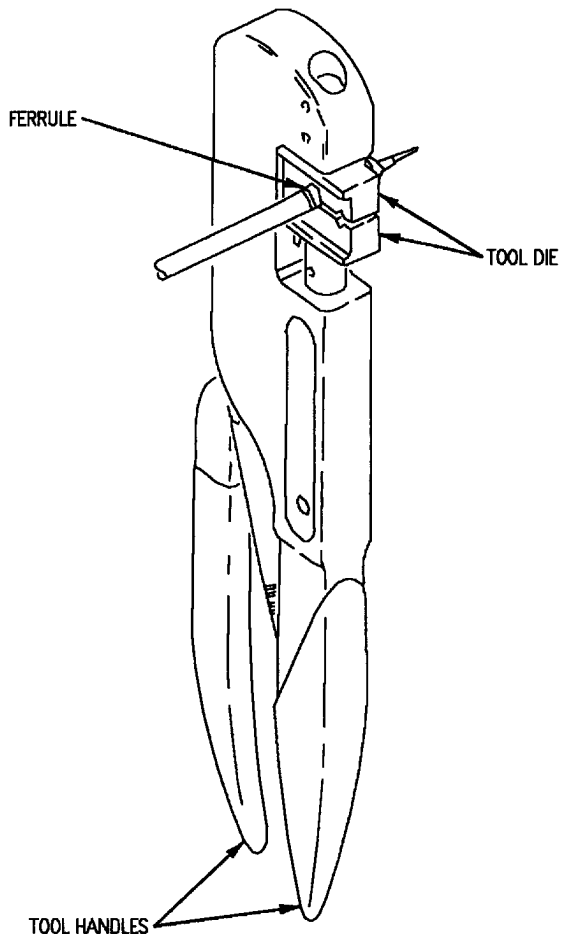


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

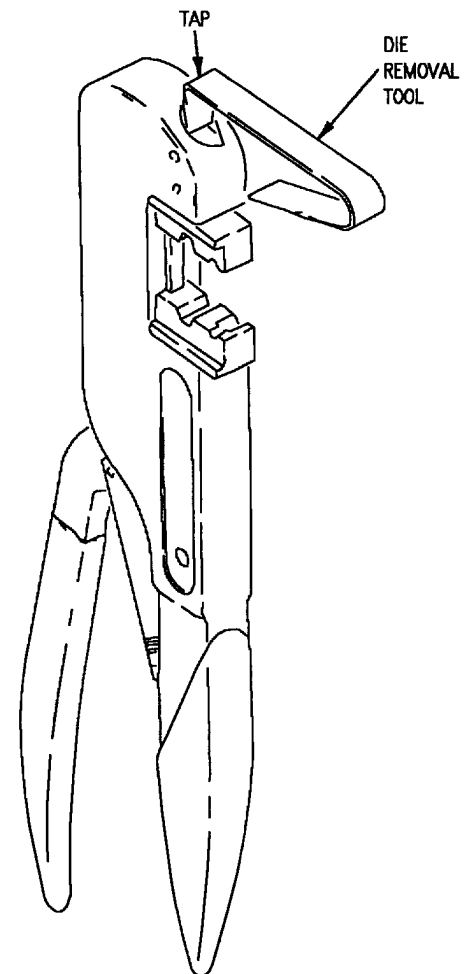


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

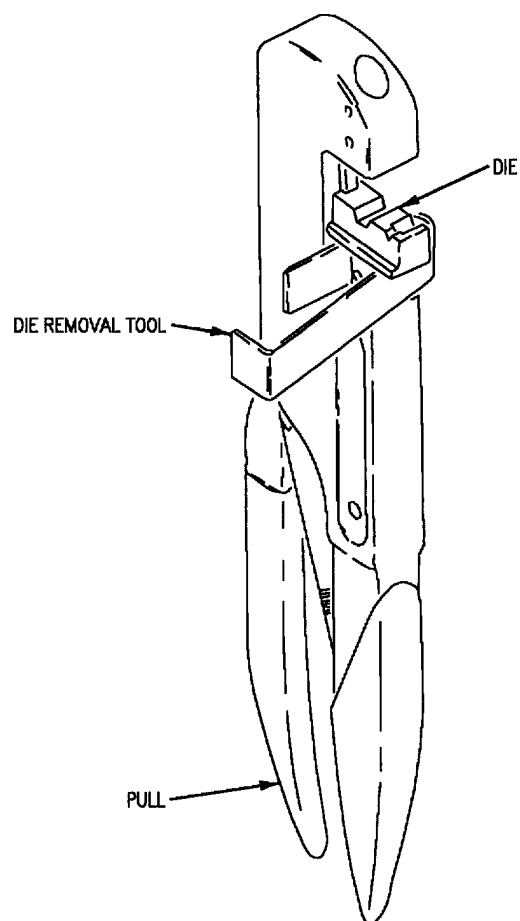


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

- b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

- a. Select turret head or universal position head needed for applicable connector.

NOTE

Tool handle shall be fully open when inserting turret or positioner head and when changing selector positions.

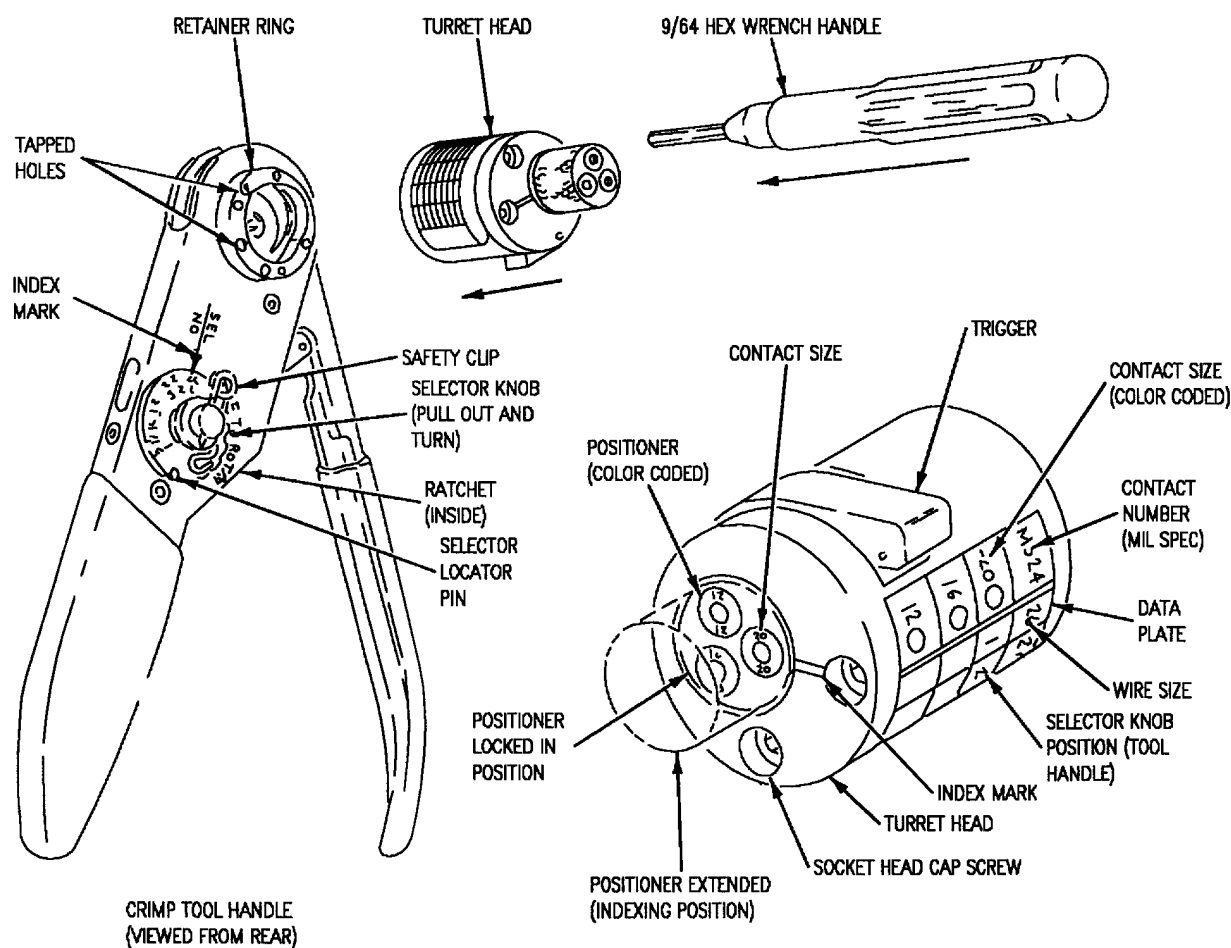
14. REMOVAL AND INSTALLATION OF TURRET HEAD.

- a. Press trigger on turret head releasing positioner to extended (indexing) position. See figure 9.

- b. Seat turret head onto retainer ring on back of tool with screws lined up with tapped holes.

- c. Tighten socket head screws with a 9/64-inch allen wrench.

- d. To remove, loosen socket head screw until threads are disengaged from tapped holes, open handles completely and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

15. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- a. Press trigger on turret head releasing positioner to extended (indexing) position.
- b. Select positioner desired from color coded data plate on side of turret head assembly.
- c. Rotate positioners until color coded positioner is lined up with index mark.
- d. Press positioner into turret head until it snaps into locked position.

16. SETTING SELECTOR KNOB USING TURRET HEAD.

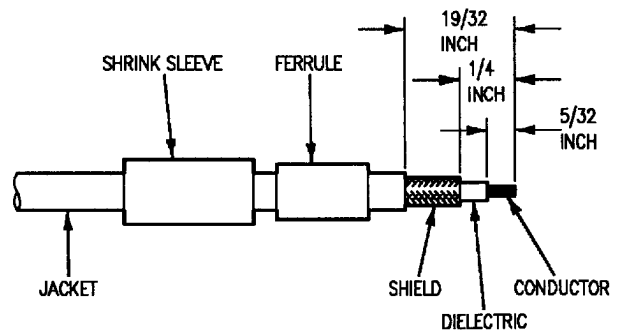
- a. Refer to data page on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on data plate.
- d. Replace safety clip.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

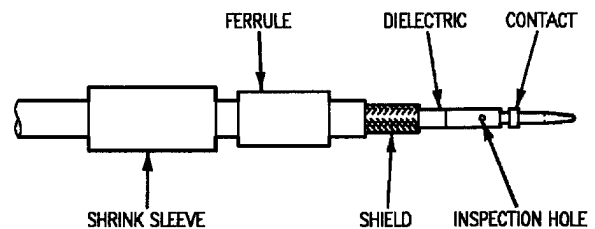
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades see (paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife remove 5/32-inch of dielectric.



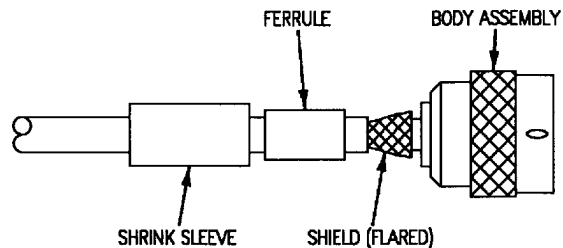
F/A-18-WRM-(310-1)01-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 3 (see paragraph 13).



F/A-18-WRM-(320-1)01-CAT1

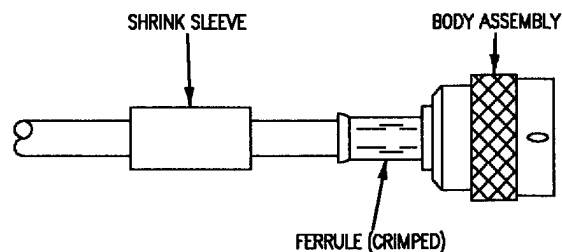
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(197-1)02-CAT1

Figure 10. M39012/26-0502 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using Y204 die set and M22520/5-01 crimping tool handle, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(197-2)02-CATI

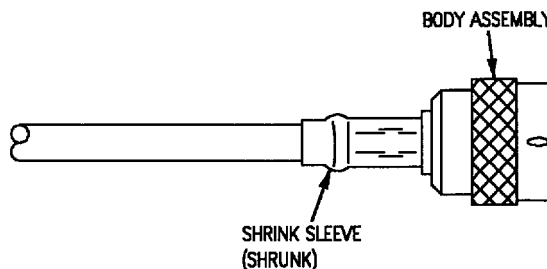
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(197-3)02-CATI

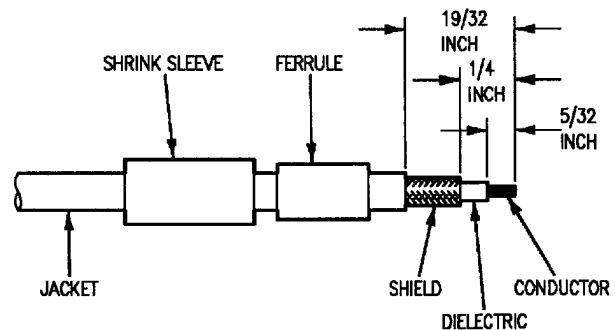
Figure 10. M39012/26-0502 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

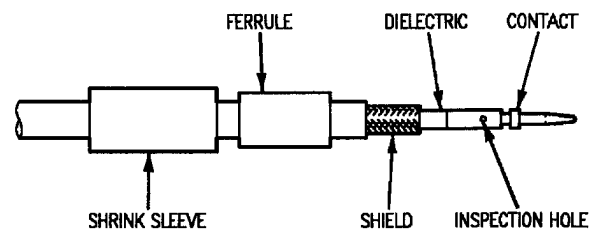
To prevent premature failure of connector, do not nick center conductor while trimming electric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife remove 5/32-inch of dielectric.



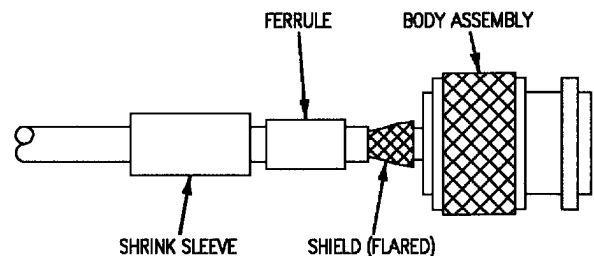
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Blue) turret head and M22520/1-01 crimping tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-1)01-CATI

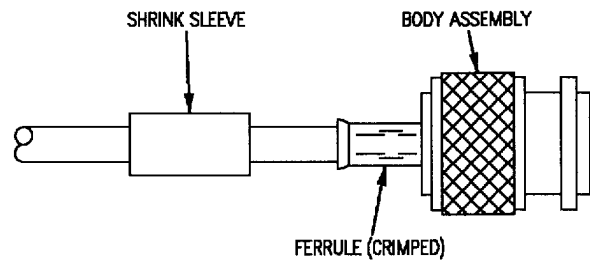
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(196-1)02-CATI

Figure 11. M39012/26-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(196-2)02-CATI

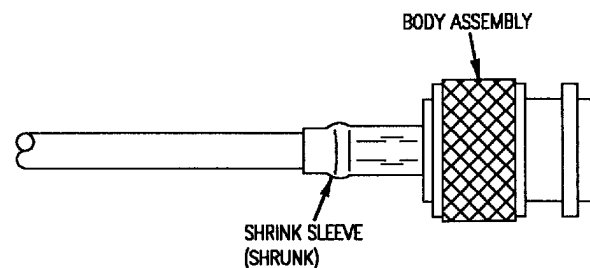
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stan-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(196-3)02-CATI

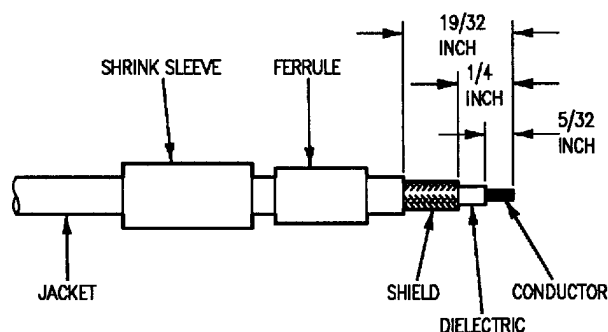
Figure 11. M39012/26-0503 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

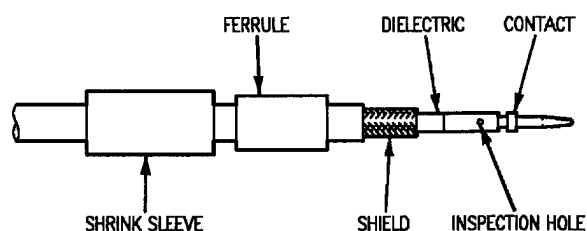
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife remove 5/32-inch of dielectric.



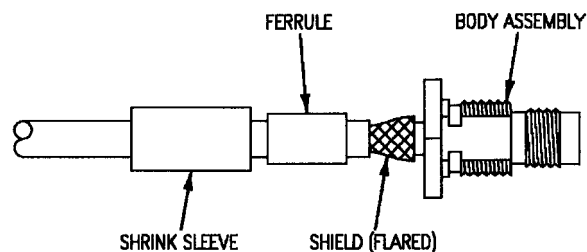
F/A-18-WRM-(310-1)01-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Red) turret head and M22520/1-01 crimp tool handle crimp contact using Setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CATI

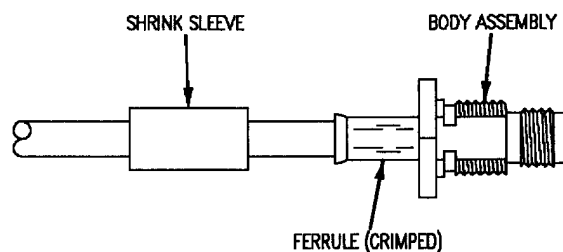
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(199-1)02-CATI

Figure 12. M39012/28-0503 and M399012/28-0018 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(199-2)02-CATI

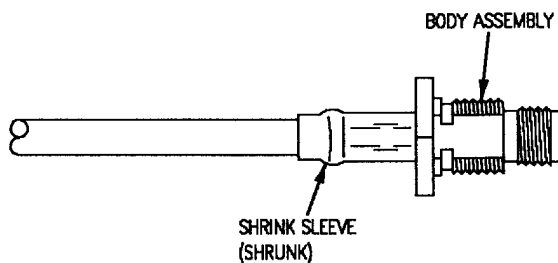
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(199-3)02-CATI

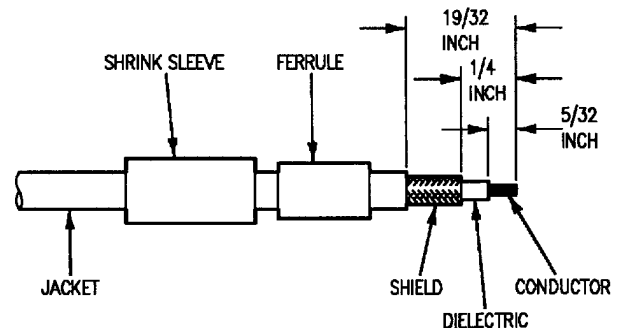
Figure 12. M39012/28-0503 and M399012/28-0018 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

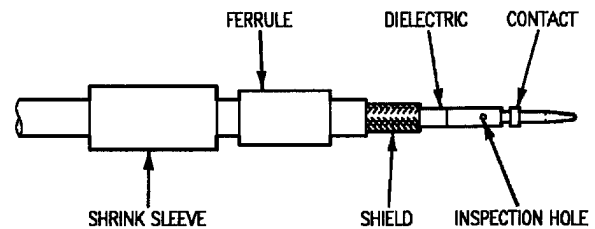
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-165 for cable with 11/32-inch between blades (see paragraph 5). Strip cable jacket 19/32-inch and shield 1/4-inch. Using sharp knife remove 5/32-inch of dielectric.



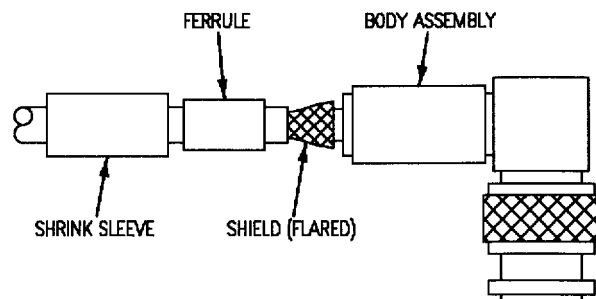
F/A-18-WRM-(310-1)01-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-12 (Green) turret heat and M22520/1-01 crimp tool handle, crimp contact using setting 5 (see paragraph 13).



F/A-18-WRM-(320-2)01-CAT1

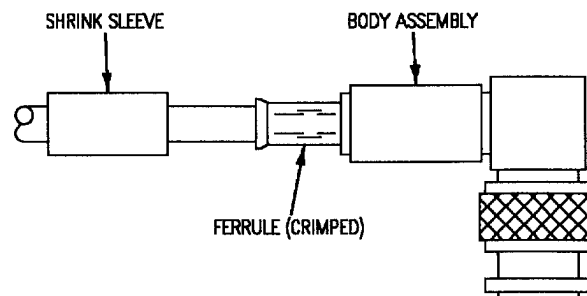
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(220-1)02-CAT1

Figure 13. M39012/30-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(220-2)02-CATI

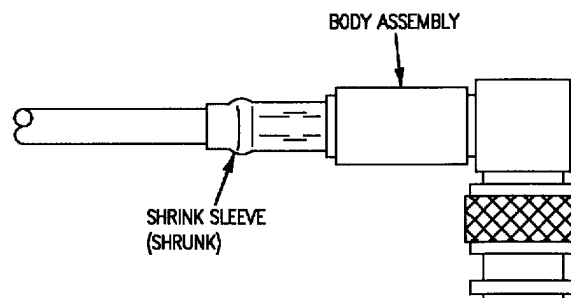
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(220-3)02-CATI

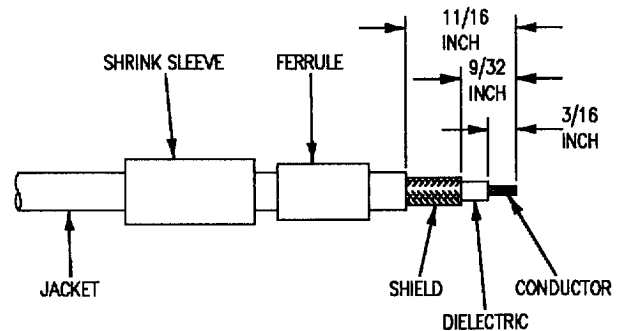
Figure 13. M39012/30-0503 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

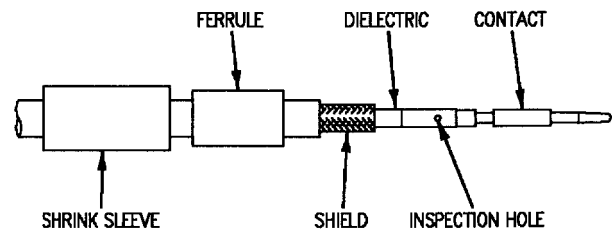
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13-32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife remove 3/16-inch of dielectric.



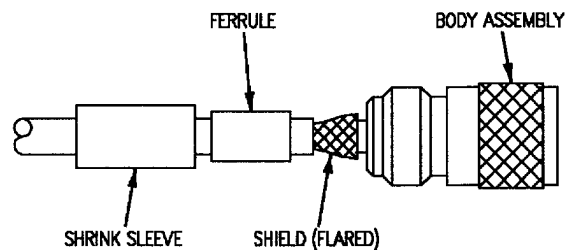
F/A-18-WRM-(148-1)02-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/-13 (Blue) turret head and M22520/1-01 crimp tool handle, crimp contact using setting 8 (see paragraph 13).



F/A-18-WRM-(221-1)02-CAT1

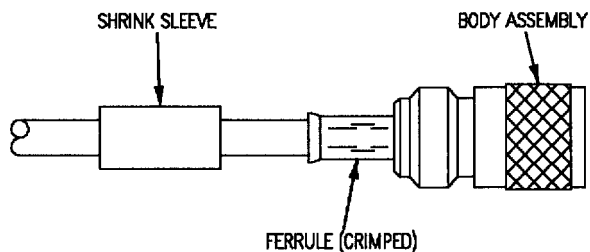
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(221-2)02-CAT1

Figure 14. 31-4372-1, 31-4372-2, 31-4372-3, and 31-4372-9 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9).



F/A-18-WRM-(221-3)02-CAT1

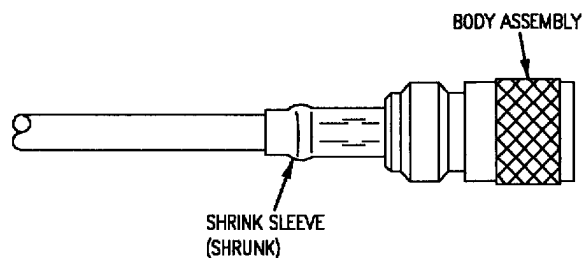
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(221-4)02-CAT1

Figure 14. 31-4372-1, 31-4372-2, 31-4372-3, and 31-4372-9 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

101-T4100A-75 (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

76J-F029

7

Materials Required

Specification or
Part Number

Nomenclature

SN60WRMAP2-0-040

Solder

1. DESCRIPTION.

2. The 101-T4100A-75 coaxial connector is a single conductor, right angle soldered pin jack (RG 400 cable) and has a temperature range of -85° to +257°F.

Support Equipment Required

Part Number or
Type Designation

Nomenclature

3308AS100

Repair Set - Wire and
Connector

-

Torque Wrench, 0 to 75
Inch-pounds

-

Torque Wrench 0 to 50
Inch-Pounds

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

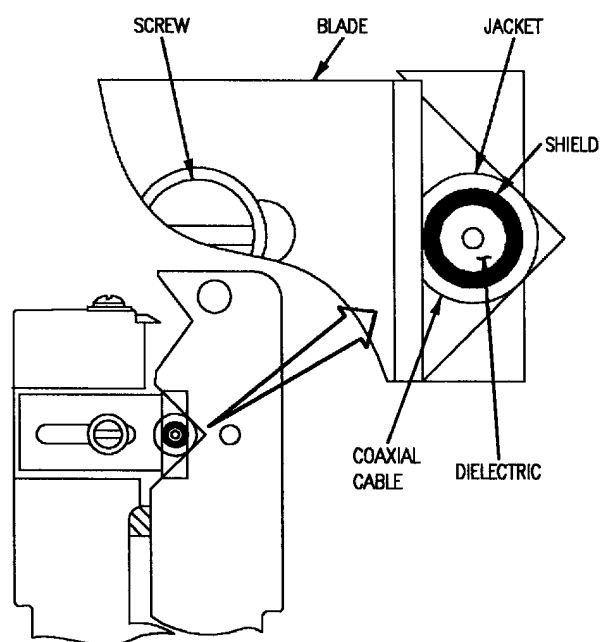
6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 1.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CAT1

Figure 1. Jacket Cut Adjustment

c. Adjust other blade so blade does not touch cable.

d. If necessary, repeat steps 6a through 6c until blade cuts through jacket without damaging shield.

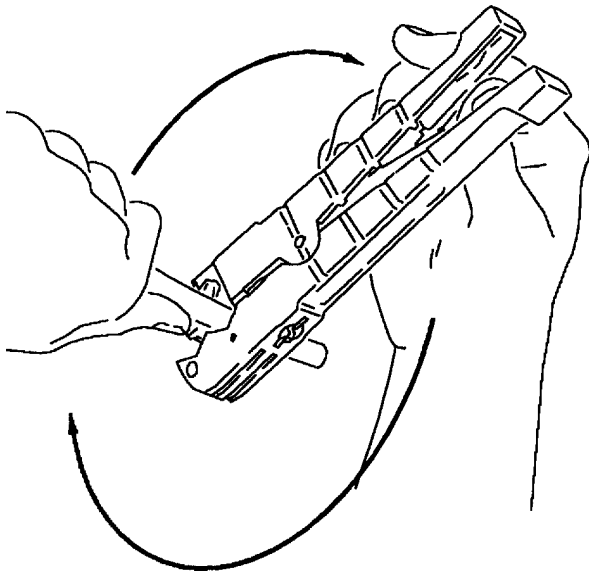
7. USE.

- a. Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket.



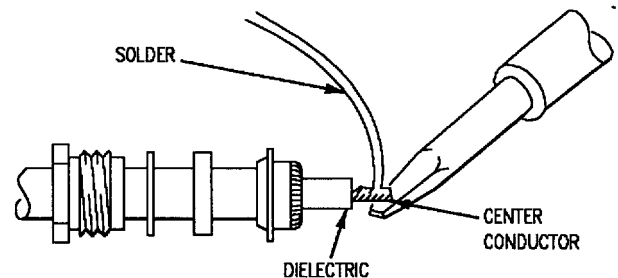
F/A-18-WRM-(409-1)01-SCAN

Figure 2. Operation**8. SOLDERING.**

9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.



F/A-18-WRM-(339-1)02-CATI

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

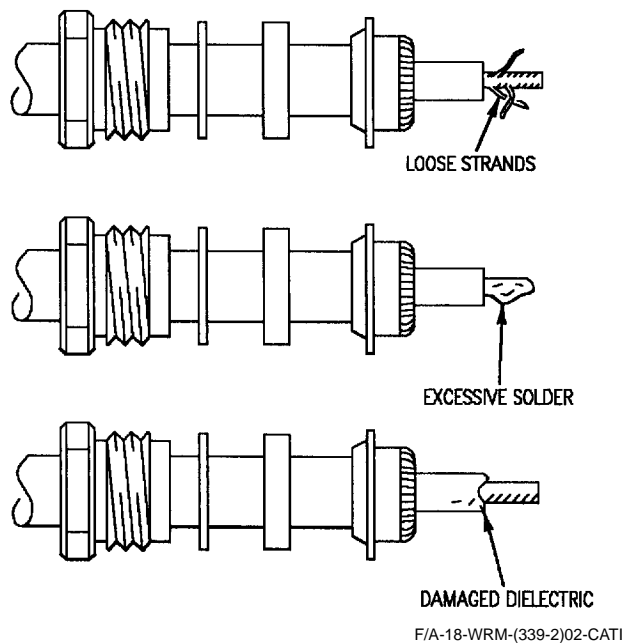


Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Apply heat and solder to conductor and contact. See figure 5.

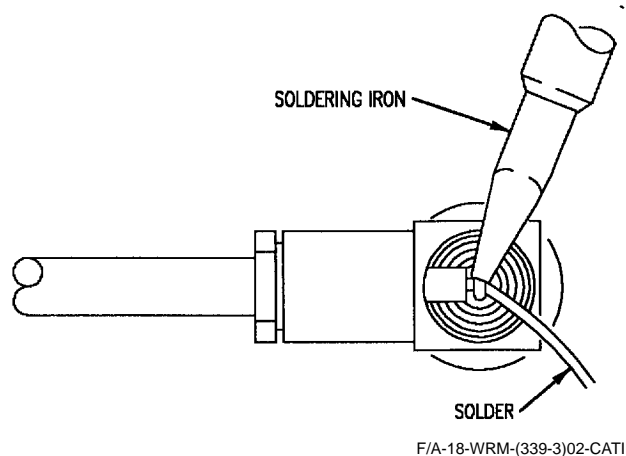
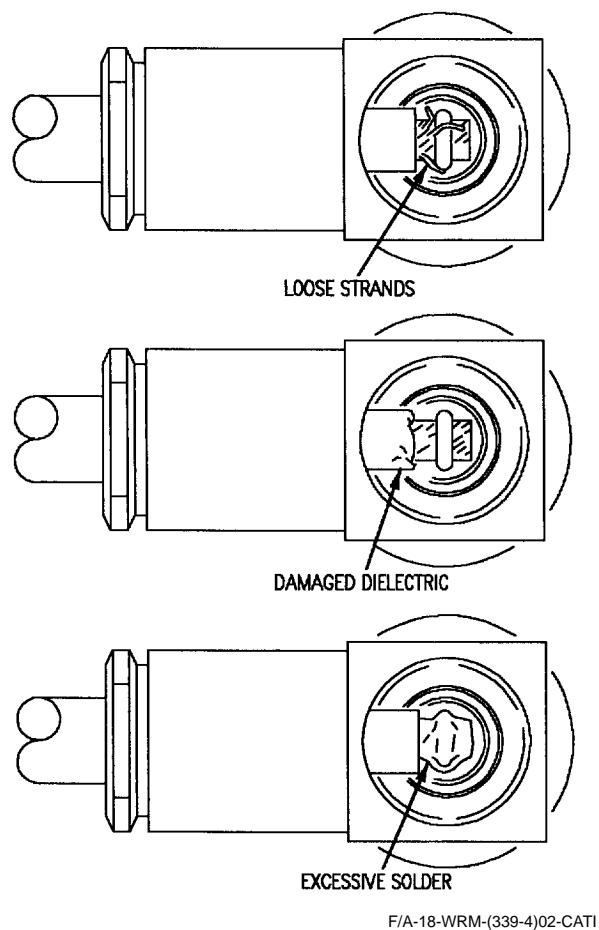


Figure 5. Soldering Contact to Conductor

c. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 6.

(1) Damaged dielectric.

(2) Too much solder.

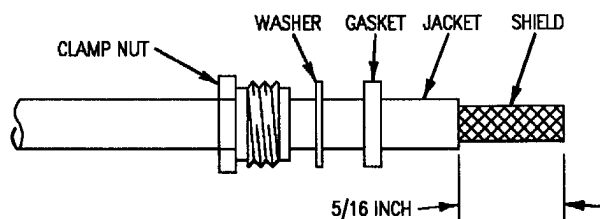


**Figure 6. Unacceptable Conditions
After Soldering Contacts**



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-163 adjusted for cable, remove 5-16-inch of jacket (see paragraph 5).



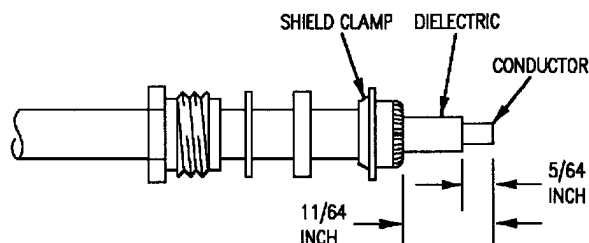
F/A-18-WRM-(235-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield strands must be smoothly and evenly distributed around face of shield clamp.

3. Comb and flare out shield. Fold shield over shield clamp and trim even with face of shield clamp.



F/A-18-WRM-(235-2)02-CATI

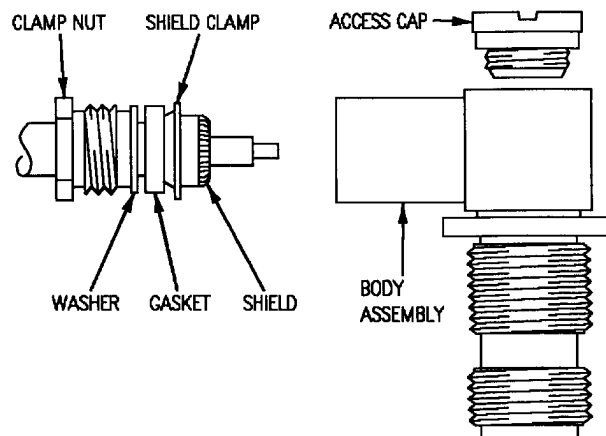
Figure 7. 101-T4100A-75 Coax Connector Repair (Sheet 1)

CAUTION

To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

4. Using sharp knife, remove 5/64-inch of dielectric.

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Remove access cap from body assembly. Slide body assembly over cable until it stops. Make sure groove in gasket goes over beveled edge of shield clamp.



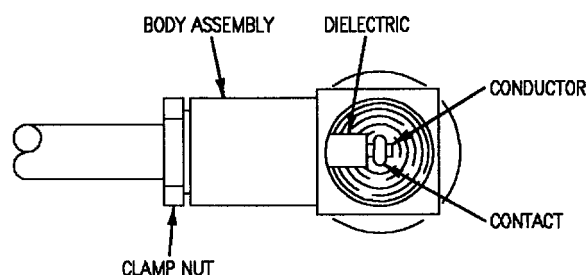
F/A-18-WRM-(235-3)02-CAT I

CAUTION

To prevent damage to connector assembly, do not allow body assembly to rotate while tightening clamp nut.

6. While supporting body assembly, torque clamp nut 25 inch-pounds.

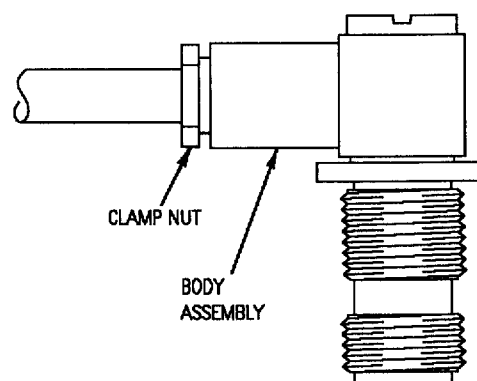
7. Make sure conductor is centered in contact. Using W60-3 soldering iron, solder conductor to contact. See paragraph 11.



F/A-18-WRM-(235-4)02-CAT I

Figure 7. 101-T4100A-75 Coax Connector Repair (Sheet 2)

8. Install access cap. Tighten cap until cap is flush against body assembly.



F/A-18-WRM-(235-5)02-CAT1

Figure 7. 101-T4100A-75 Coax Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****31-4371-3001 AND 31-4371-3009 (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

72P-A002A	10
76P-R013A	10
77P-E003A	10
77P-E003B	10
77P-K001A	10
78P-E001D	10

Materials Required

Specification
or Part Number

Nomenclature

MS23053/5-XXX-O

Shrink Sleeve

3. PROCEDURE.



1. DESCRIPTION.

2. The TCN-type coaxial connector is a general purpose, threaded coupling connector used with large coaxial cable. These connectors meet the requirements of MIL-C-39012.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

Support Equipment Required

Part Number or
Type Designation

Nomenclature

HT-900 .	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

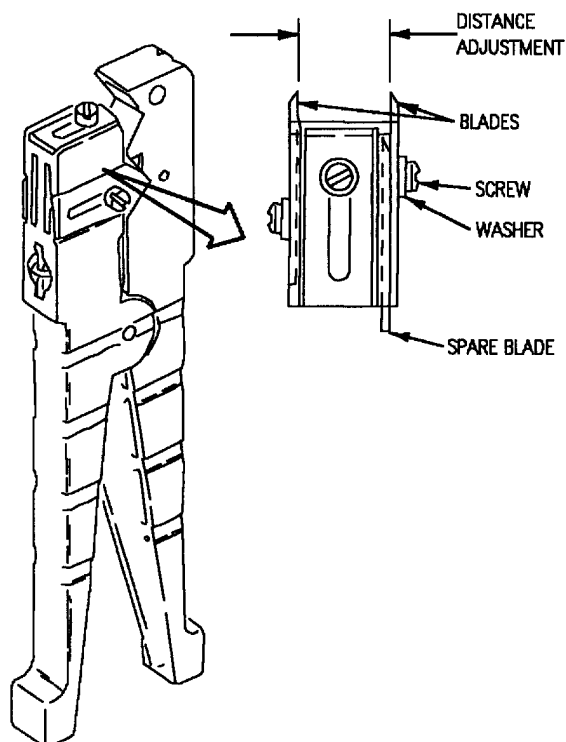
6. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will change distance between blade 3/64-inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

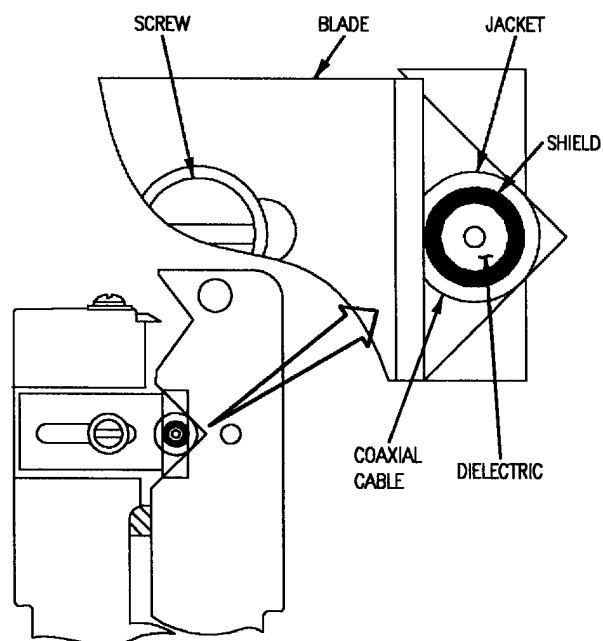
Figure 1. Distance Adjustment

7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 2.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CATI

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.

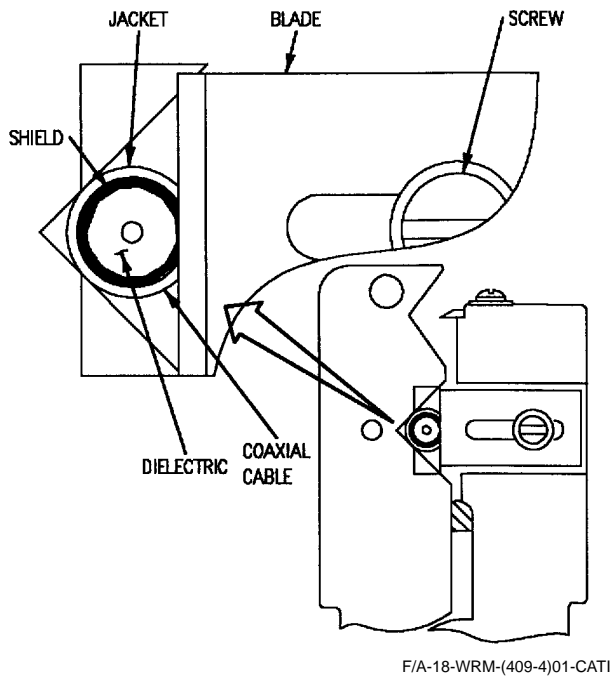


Figure 3. Shield Cut Adjustment

8. USE.

a. Position stripper on cable so that blades face down. See figure 4.

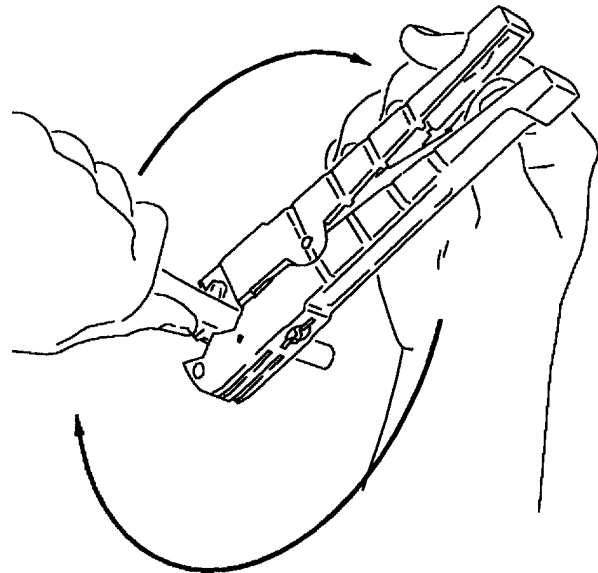
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.

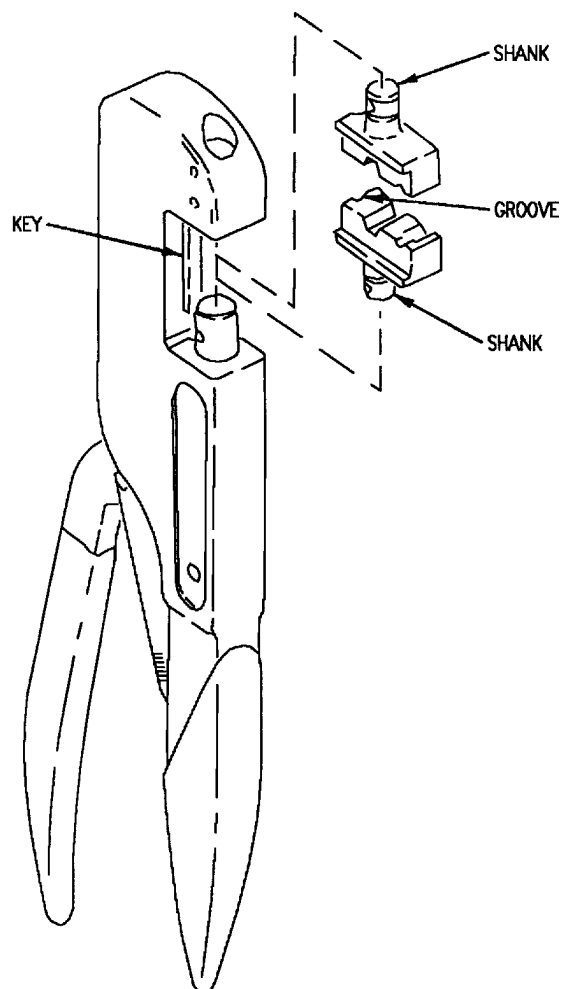


F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation

9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.**10. DIE INSTALLATION.**

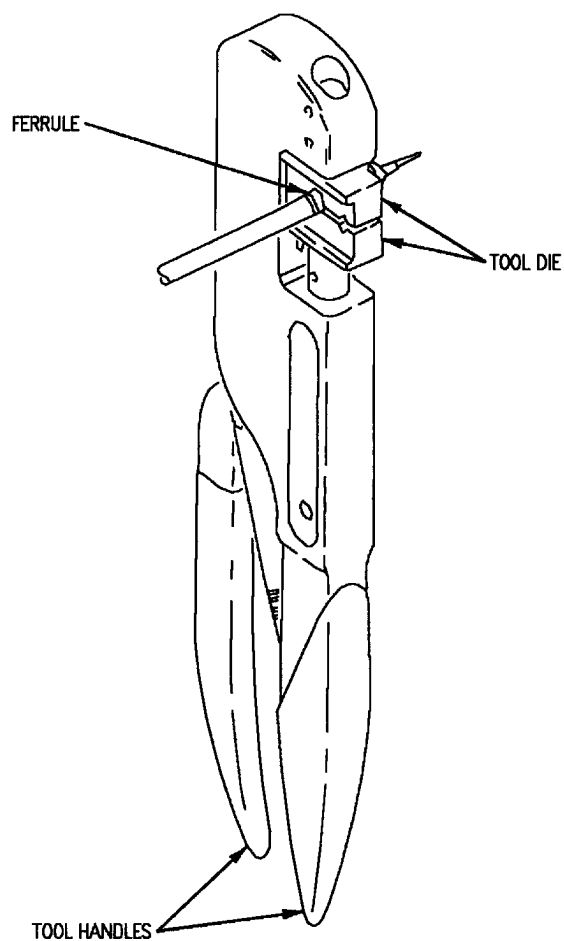
- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.



F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation**11. CRIMP PROCEDURE.**

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.



F/A-18-WRM-(410-1)01-SCAN

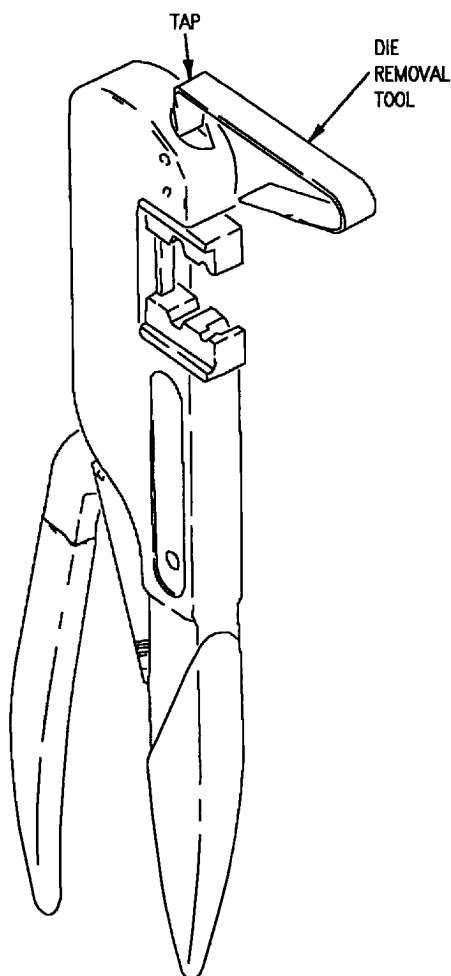
Figure 6. Crimping Operation

12. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

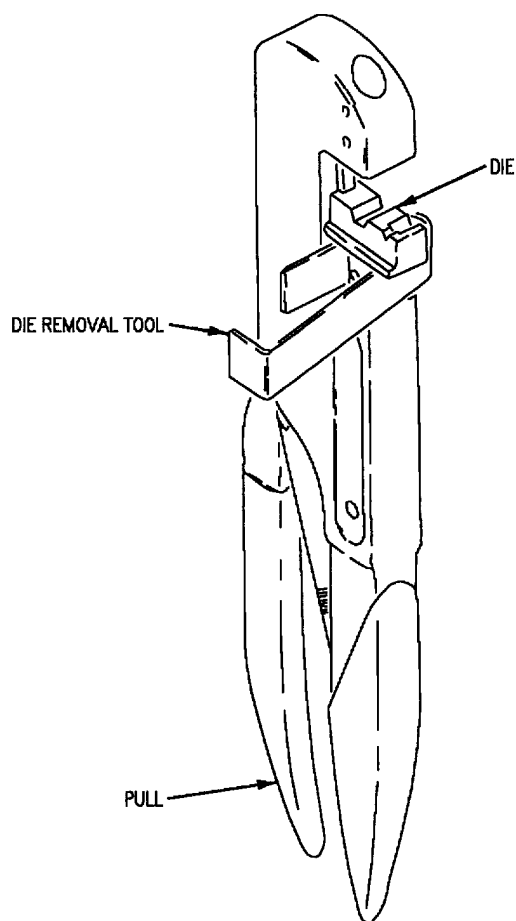


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

- a. Select turret head or universal position head needed for applicable connector.

NOTE

Tool handle shall be fully open when inserting turret or positioner head and when changing selector positions.

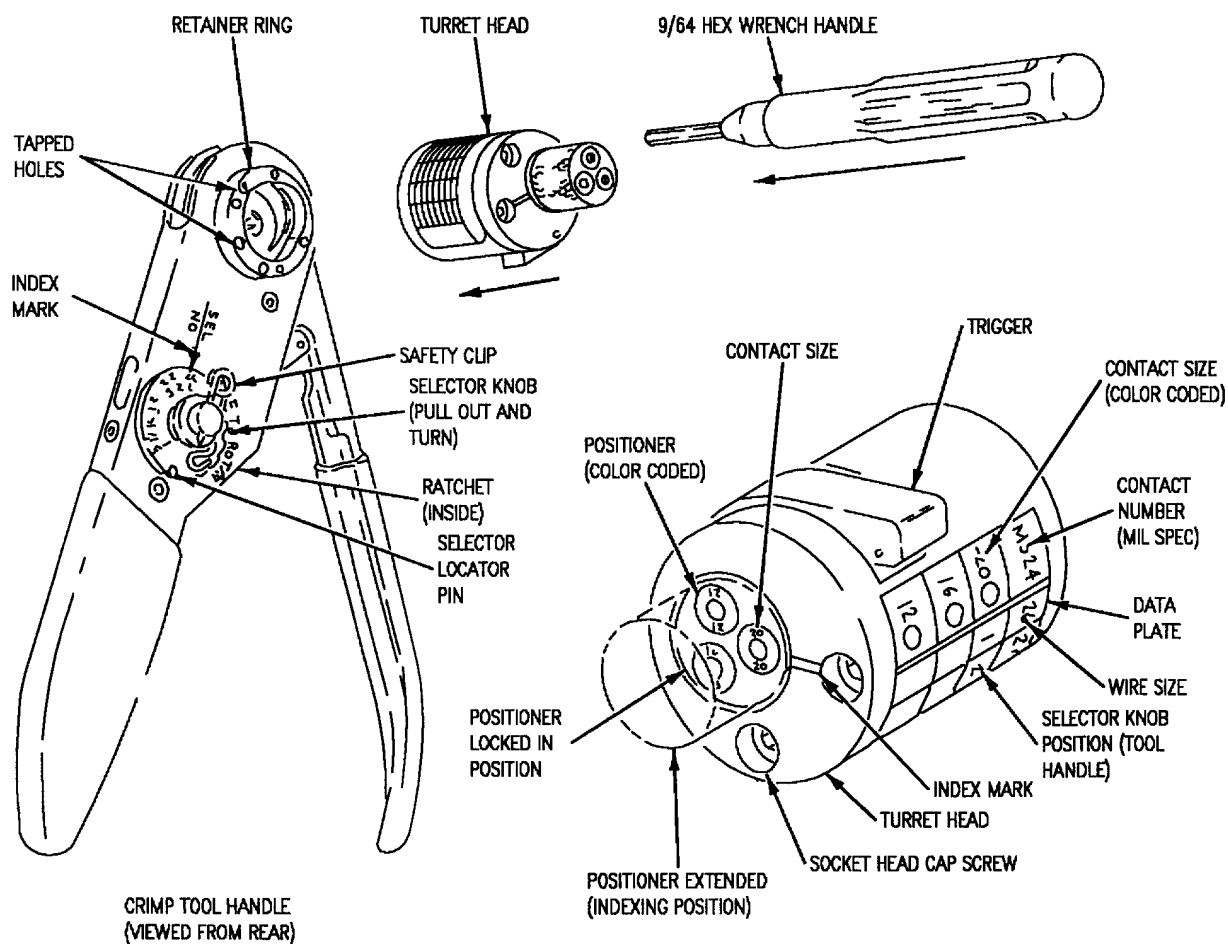
14. REMOVAL AND INSTALLATION OF TURRET HEAD.

- a. Press trigger on turret head releasing positioner to extended (indexing) position. See figure 9.

- b. Seat turret head onto retainer ring on back of tool with screws lined up with tapped holes.

- c. Tighten socket head screws with a 9/64-inch allen wrench.

- d. To remove, loosen socket head screw until threads are disengaged from tapped holes, open handles completely and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

15. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- a. Press trigger on turret head releasing positioner to extended (indexing) position.
- b. Select positioner desired from color data plate on side of turret head assembly.
- c. Rotate positioners until color coded positioner is lined up with index mark.
- d. Press positioner into turret head snaps into locked position.

16. SETTING SELECTOR KNOB USING TURRET HEAD.

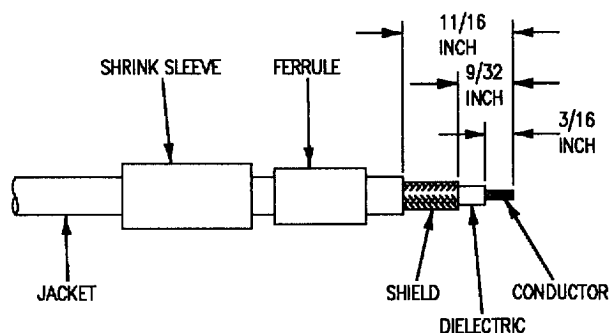
- a. Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on data plate.
- d. Replace safety clip.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

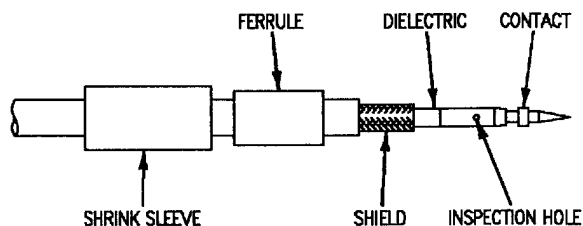
To prevent premature failure of conductor, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife, remove 3/16-inch of dielectric.



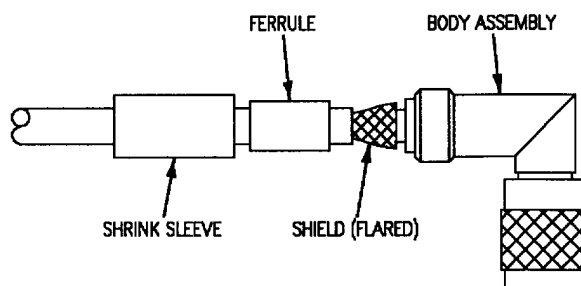
F/A-18-WRM-(148-1)02-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using M22520/1-13 (Blue) Turret Head and M22520/1-01 Crimp Tool Handle, crimp contact using setting 8 (See paragraph 13).



F/A-18-WRM-(222-1)02-CAT1

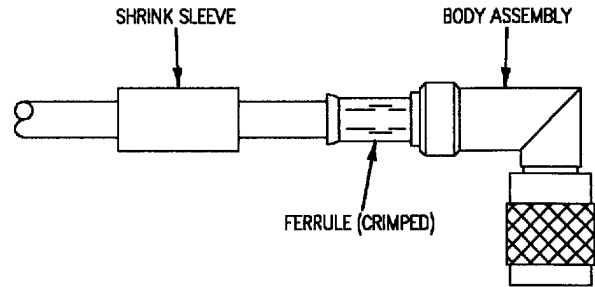
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-WRM-(222-2)02-CAT1

Figure 10. 31-4371-3001 and 31-4371-3009 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(222-3)02-CATI

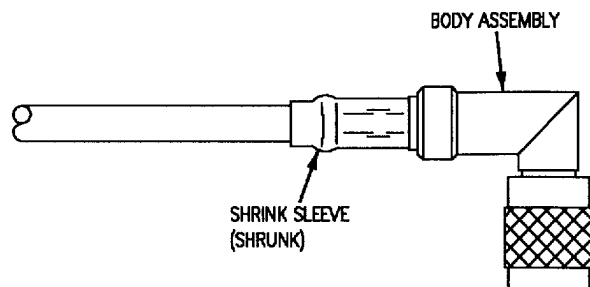
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew station can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(222-4)02-CATI

Figure 10. 31-4371-3001 and 31-4371-3009 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****31-34181-2 (MIL-C-39012) TRIAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 54	-	Incorporation of Video Recording Set	1 Dec 91	-

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

80J-J020
80J-L021
80J-L022

15
15
15

Support Equipment Required

Part Number or
Type Designation

Nomenclature

HT-900
3308AS100

Heat Tool
Repair Set - Wire and
Connector

1317AS100-1

Nitrogen Servicing
Unit - NAN-3

BT-ST-751-E

Torque Wrench, 0 to 50
Inch-Pounds

1. DESCRIPTION

2. The TCN-type coaxial connector is a general purpose, threaded coupling connector used with large coaxial cable. These connectors meet the requirements of MIL-C-39012.

Materials Required

Specification
or Part Number

Nomenclature

MS23053/5-XXX-0

Shrink Sleeve

3. PROCEDURE.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

6. DISTANCE ADJUSTMENT.

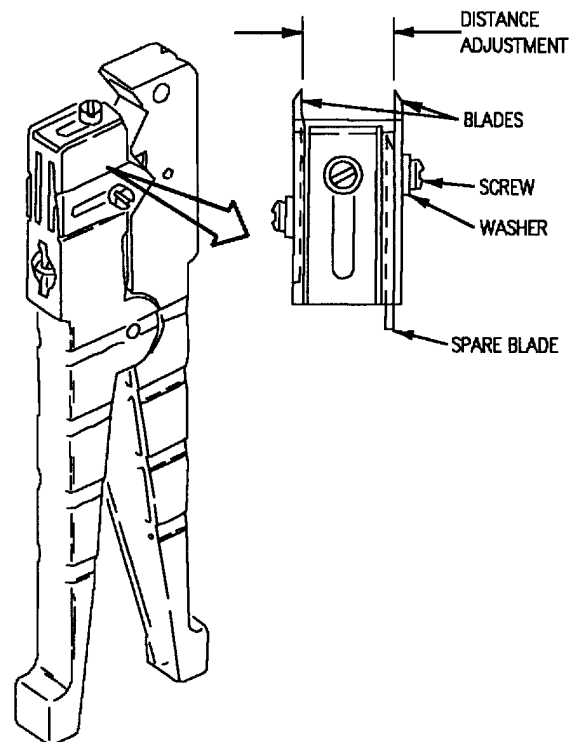
- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will change distance between blade $\frac{3}{64}$ -inch.

- Install screws and tighten finger tight.

- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

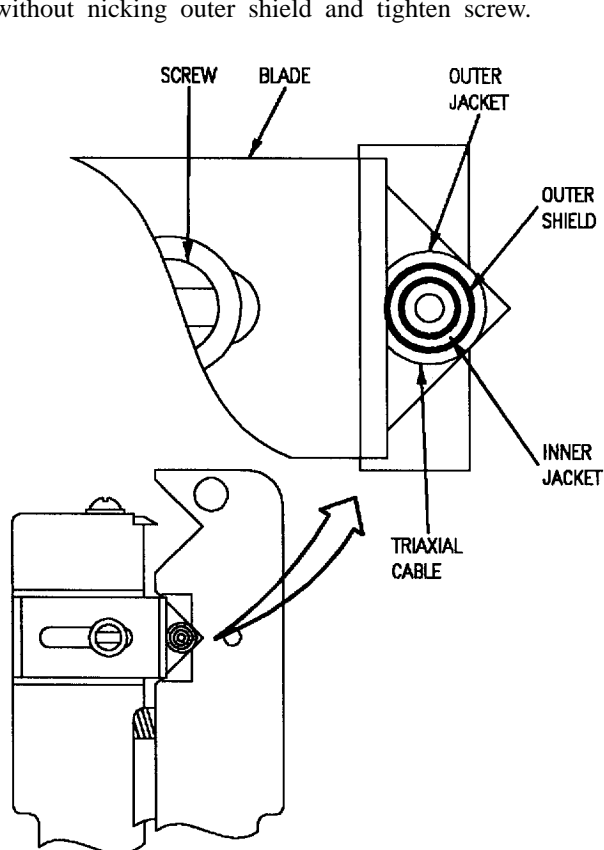
7. OUTER JACKET AND SHIELD CUT ADJUSTMENT.

NOTE

A test strip should be done on spare triax before stripping triax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through outer jacket without nicking outer shield and tighten screw.



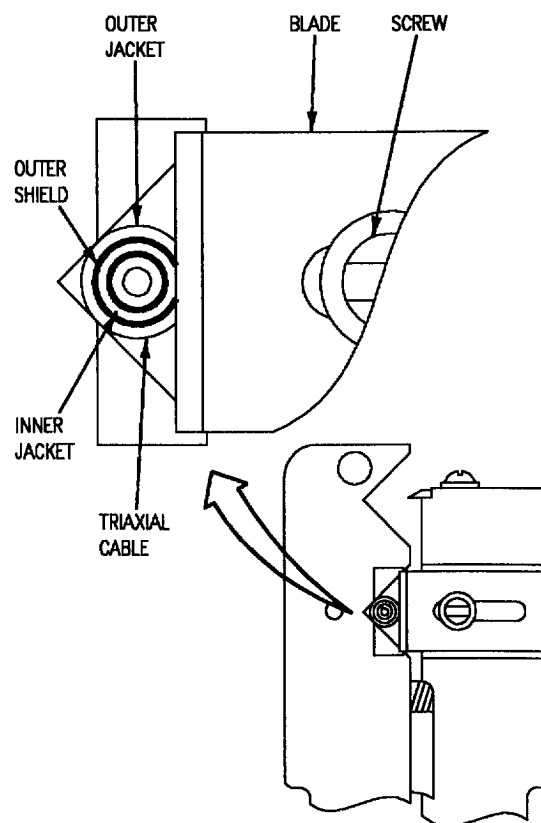
F/A-18-WRM-(568-1)01-CAT1

Figure 2. Outer Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.

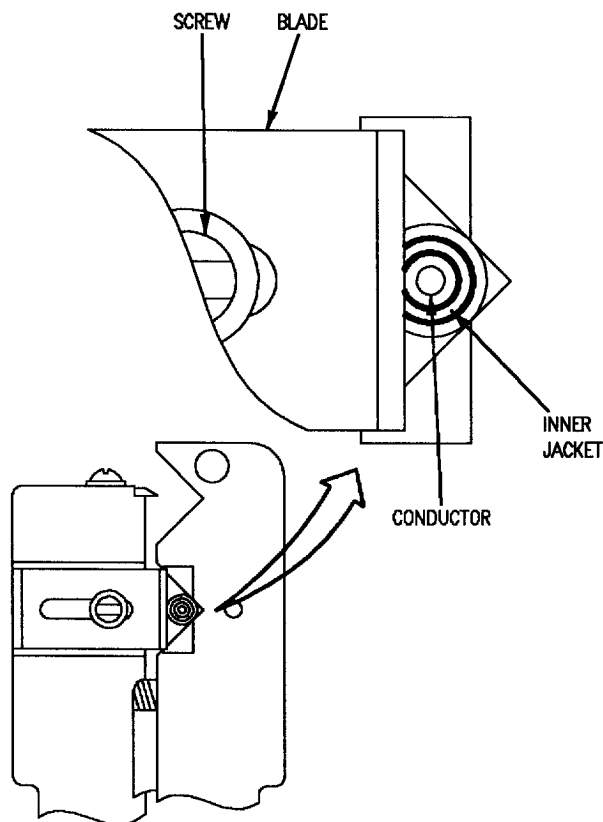


F/A-18-WRM-(569-1)01-CAT1

Figure 3. Outer Shield Cut Adjustment

8. INNER JACKET CUT ADJUSTMENT.

- Position cable in stripper until the end butts against the blade. See figure 4.
- Adjust blade so it cuts through inner jacket without nicking inner shield and tighten screw.
- Adjust other blade so it does not touch cable.



F/A-18-WRM-(570-1)01-CAT1

Figure 4. Inner Jacket Cut Adjustment

9. USE.

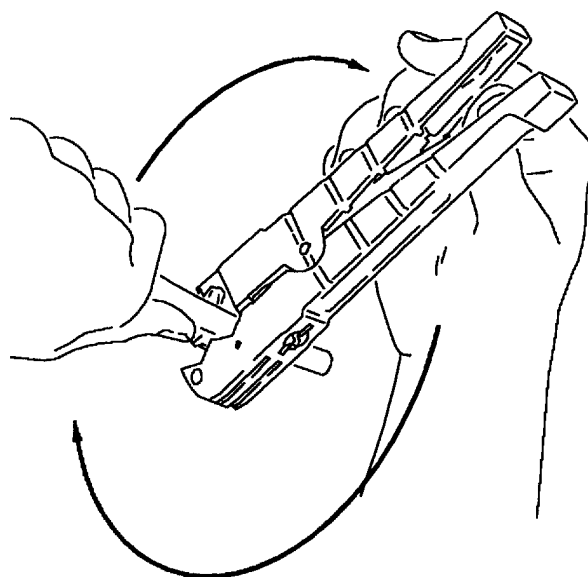
- Position stripper on cable so that blades face down. See figure 5.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- Rotate stripper on cable by pressing handle blade side of stripper. Six to eight rotations will necessary to finish cut.

- Remove stripper from cable.



F/A-18-WRM-(409-1)01-SCAN

Figure 5. Operation

10. SOLDERING.

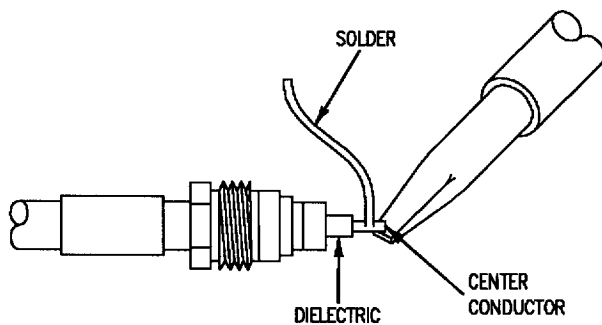
11. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

12. TINNING CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder flows into conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 6.

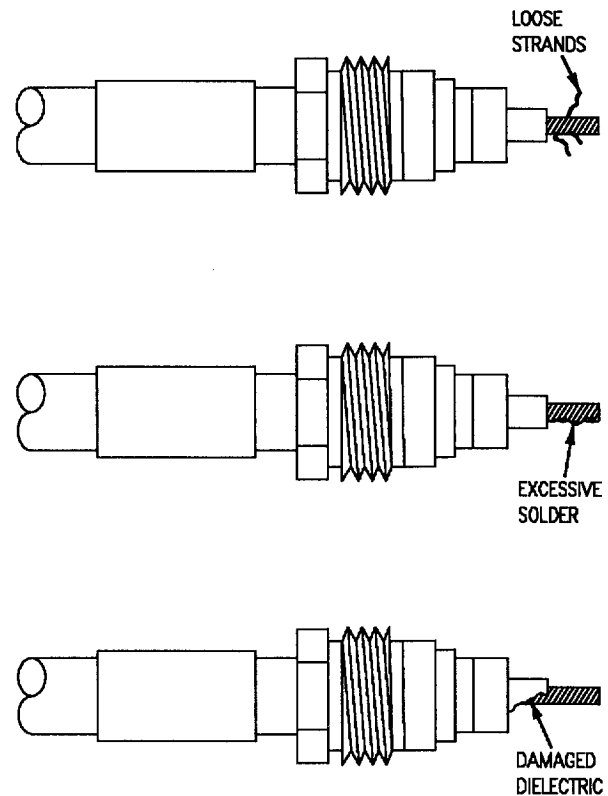


F/A-18-WRM-(572-1)01-CAT1

Figure 6. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 7.

- (1) Individual wires not joined to center conductor
- (2) Excessive solder.
- (3) Damaged dielectric.

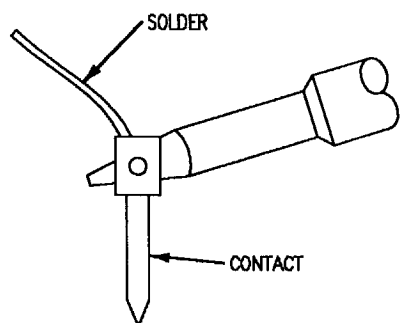


F/A-18-WRM-(573-1)01-CAT1

Figure 7. Unacceptable Conditions After Tinning

13. SOLDERING CONTACT TO CENTER CONDUCTOR.

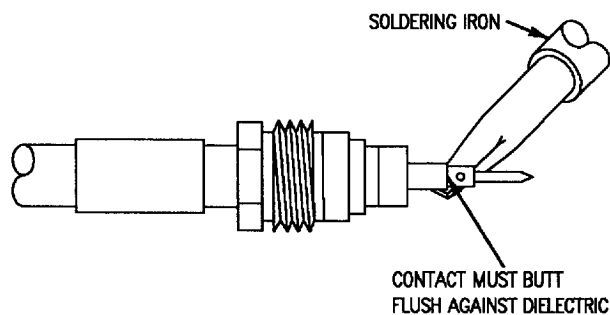
- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 8.



F/A-18-WRM-(574-1)01-CATI

Figure 8. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 9.



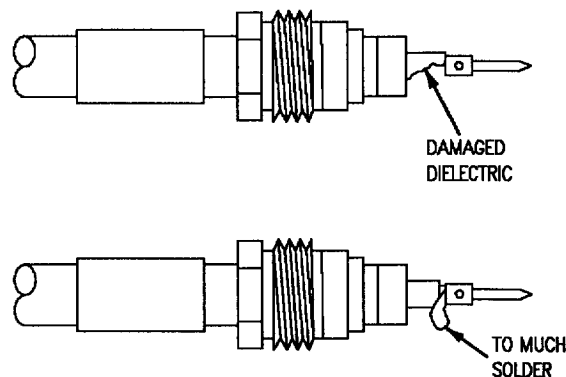
F/A-18-WRM-(575-1)01-SCAN

Figure 9. Soldering Contact to Center Conductor

- d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 10.

(1) Too much solder.

(2) Damaged dielectric.

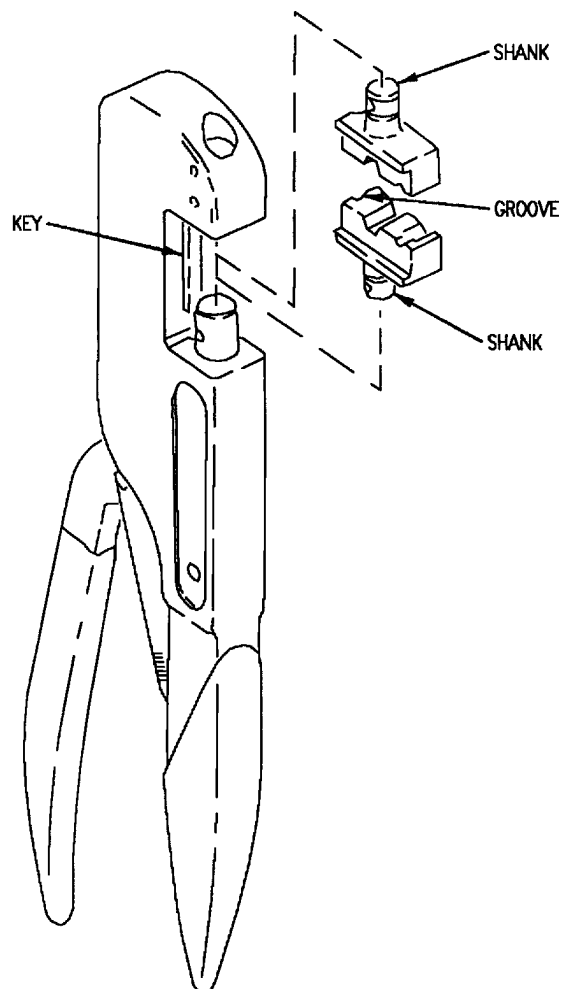


F/A-18-WRM-(576-1)01-CATI

Figure 10. Unacceptable Conditions After Soldering Contact

**14. CRIMP TOOL M22520/5-01
ASSEMBLY AND USE.****15. DIE INSTALLATION.**

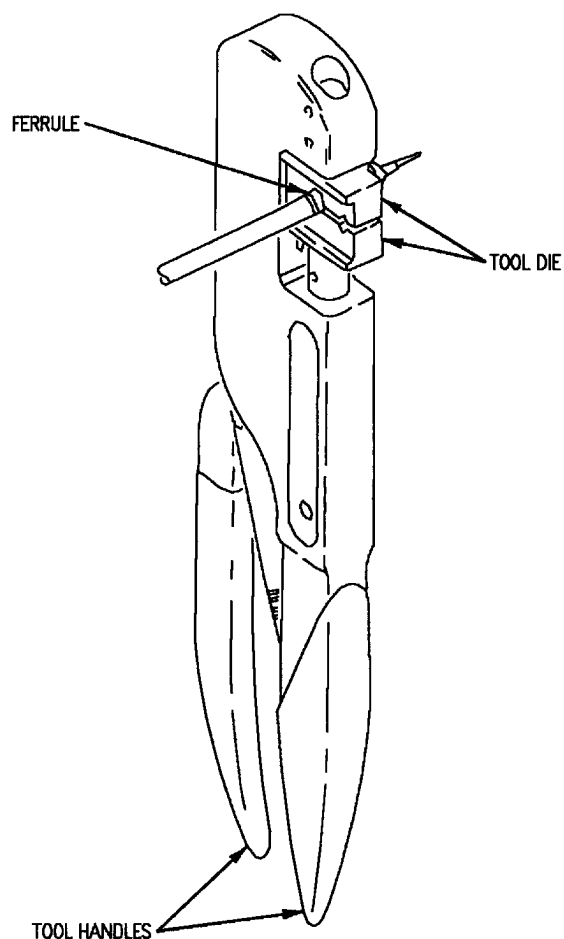
- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 11.
- b. Close handle to make sure dies are seated and locked in place.



F/A-18-WRM-(410-2)01-SCAN

Figure 11. Die Installation**16. CRIMP PROCEDURE.**

- a. Position crimping material in correct of dies. See figure 12.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.



F/A-18-WRM-(410-1)01-SCAN

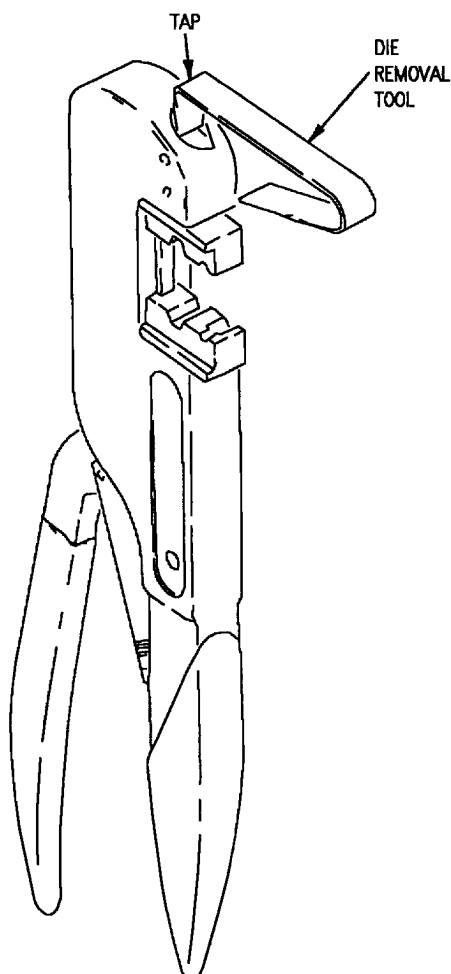
Figure 12. Crimping Operation

17. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 13.

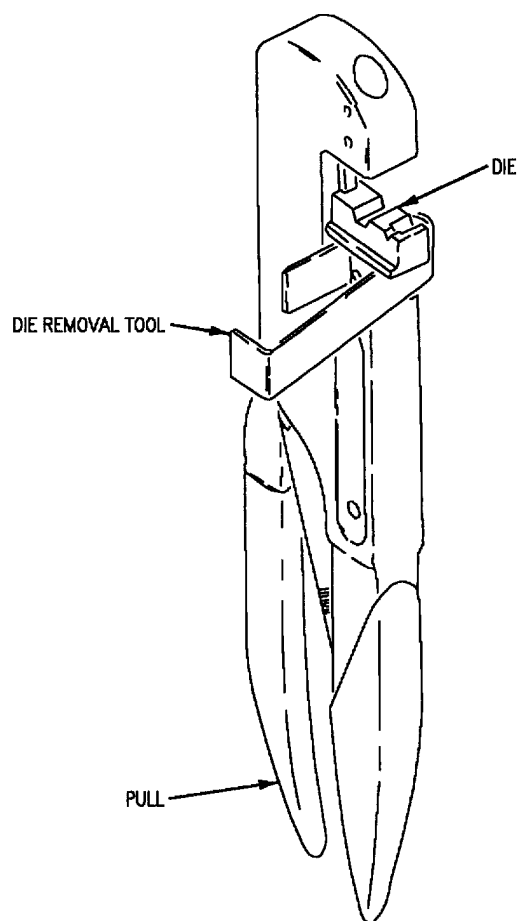


F/A-18-WRM-(410-3)01-SCAN

Figure 13. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 14.



F/A-18-WRM-(410-4)01-SCAN

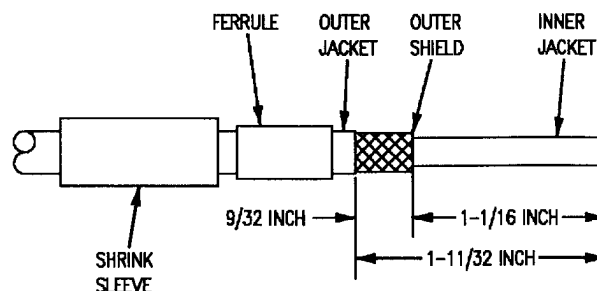
Figure 14. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.



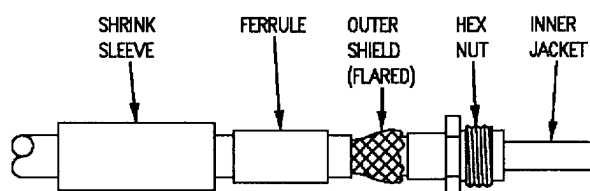
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with $9/32$ -inch between blades (see paragraph 5). Strip outer jacket $1-11/32$ -inch and outer shield $1-1/16$ -inch.



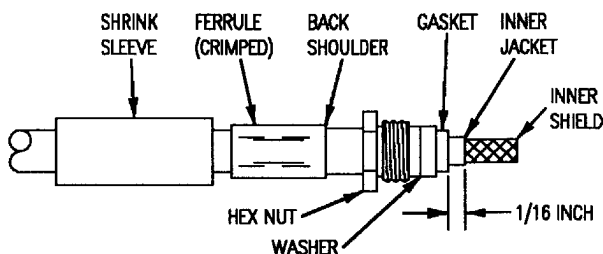
F/A-18-WRM-(279-1)02-CATI

2. Slide hex nut over inner jacket and under outer shield until shield butts against shoulder on hex nut.



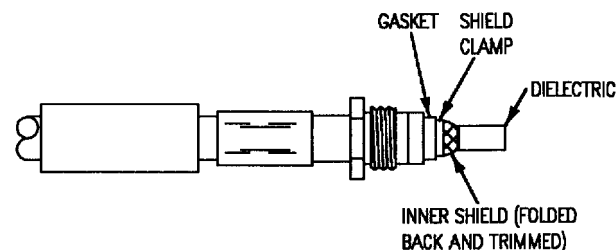
F/A-18-WRM-(279-2)02-CATI

3. Slide ferrule forward over shield against back shoulder of hex nut. Using M22520/05-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in "A" cavity of die set (see paragraph 14). Slide washer and gasket over inner jacket and against hex nut adjust cable stripper 45-163 for inner jacket (see paragraph 14). Strip all but $1/16$ -inch jacket.



F/A-18-WRM-(279-3)02-CATI

4. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



F/A-18-WRM-(279-4)02-CATI

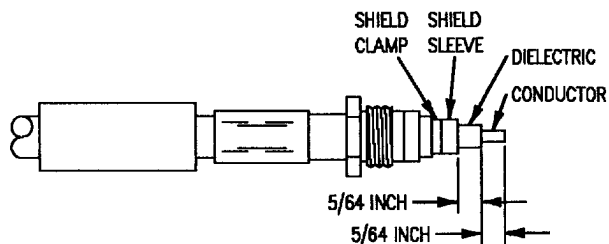
Figure 15. 31-34181-2 Triaxial Connector Repair (Sheet 1)

5. Slide shield sleeve over dielectric and against shield clamp.



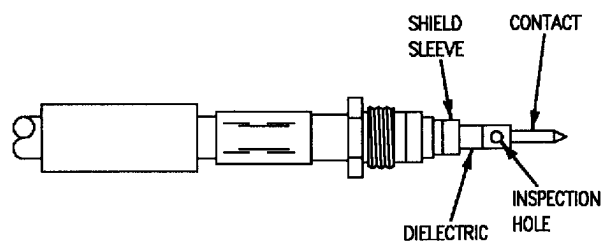
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

6. Using sharp knife, remove all but 5/64-inch of dielectric. Using 45-123 wire cutters cut center conductor to leave 5-64-inch. Using W60-3 soldering iron, tin center conductor (see paragraph 12).



F/A-18-WRM-(279-5)02-CATI

7. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



F/A-18-WRM-(279-6)02-CATI

Figure 15. 31-34181-2 Triaxial Connector Repair (Sheet 2)

8. Slide shrink sleeve over ferrule until it butts against hex nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

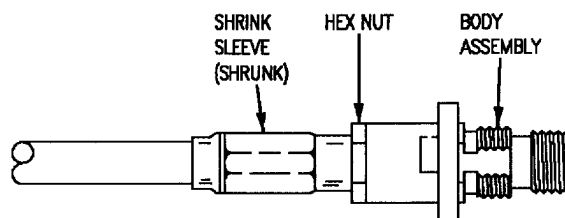
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

9. Shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent damage to connectors, rotate body assembly only when assembled.

10. While holding hex nut, screw body assembly onto hex nut. Torque body assembly 13 to 18 inch-pounds.



F/A-18-WRM-(279-7)02-CAT I

Figure 15. 31-34181-2 Triaxial Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****4545-6010 (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

Reference Designation	Figure No.
61J-D245	15

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve

1. DESCRIPTION.

2. The 4545-6010 is a TNC-type coaxial bulkhead receptacle used with large coaxial cable. This connector meets the requirements of MIL-C-39012.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit NAN-3
-	Torque Wrench 0 to 50 Inch-Pounds

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers
see WP010 00.

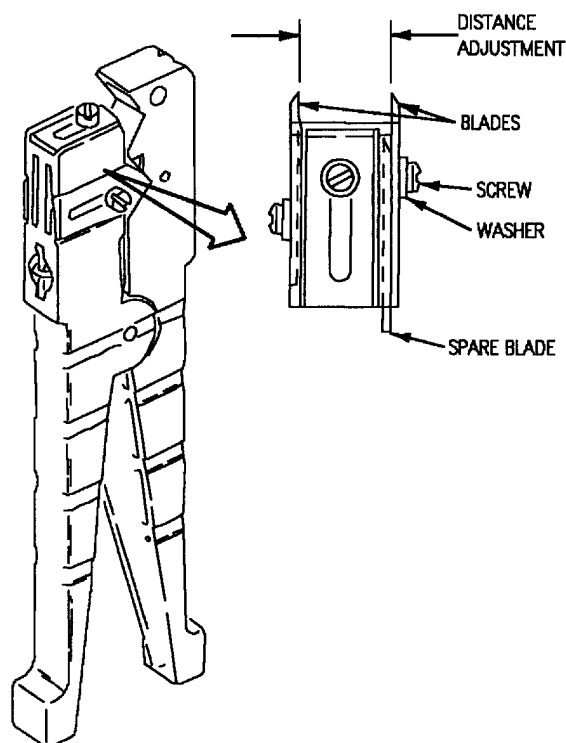
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will
change distance between blade 3/64-inch.

- c. Install screws and tighten finger tight.
- d Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

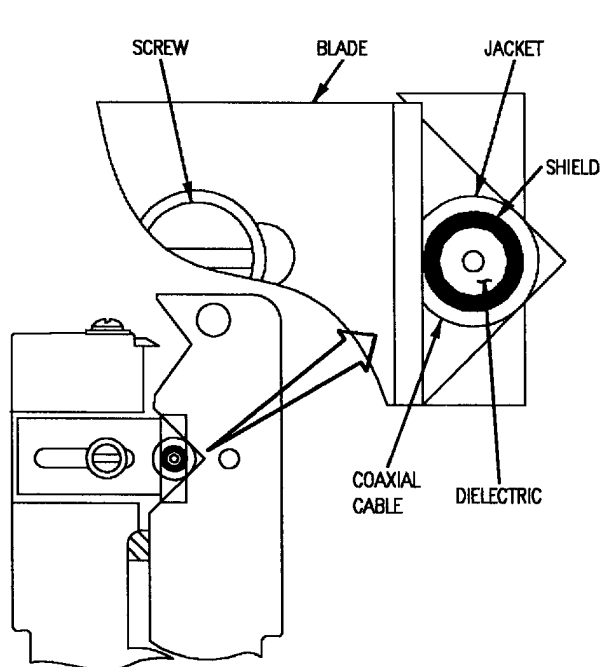
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



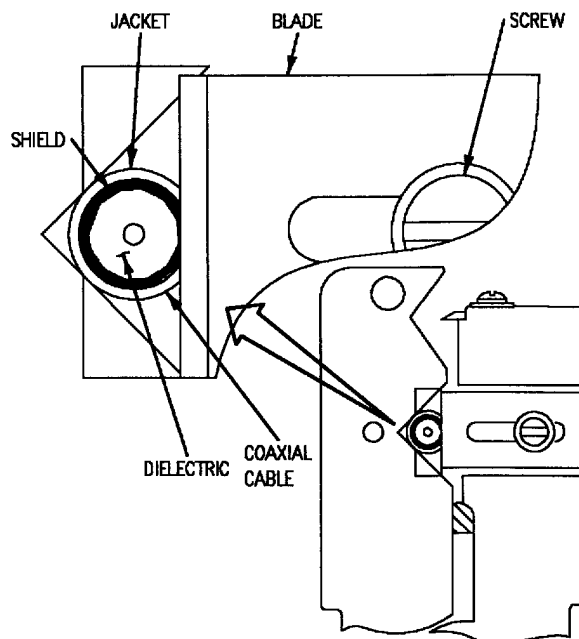
F/A-18-WRM-(409-3)01-CAT1

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CAT1

Figure 3. Shield Cut Adjustment

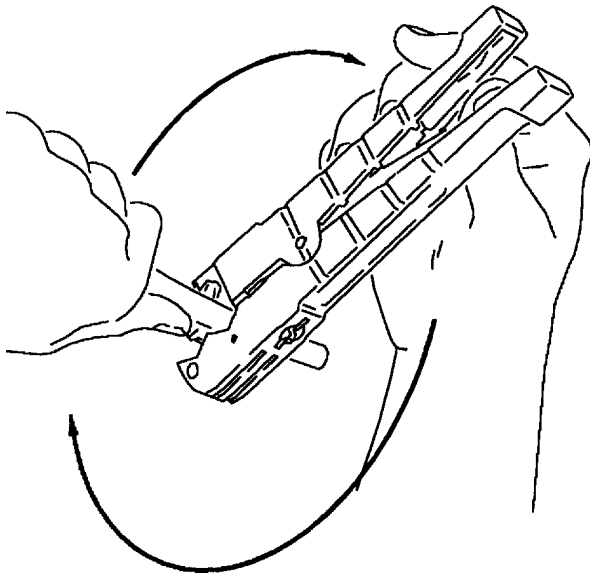
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



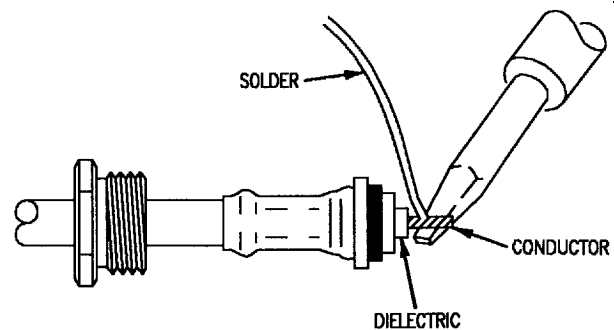
F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. SOLDERING.**

10. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

11. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 5



F/A-18-WRM-(468-1)02-CAT1

Figure 5. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 6.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

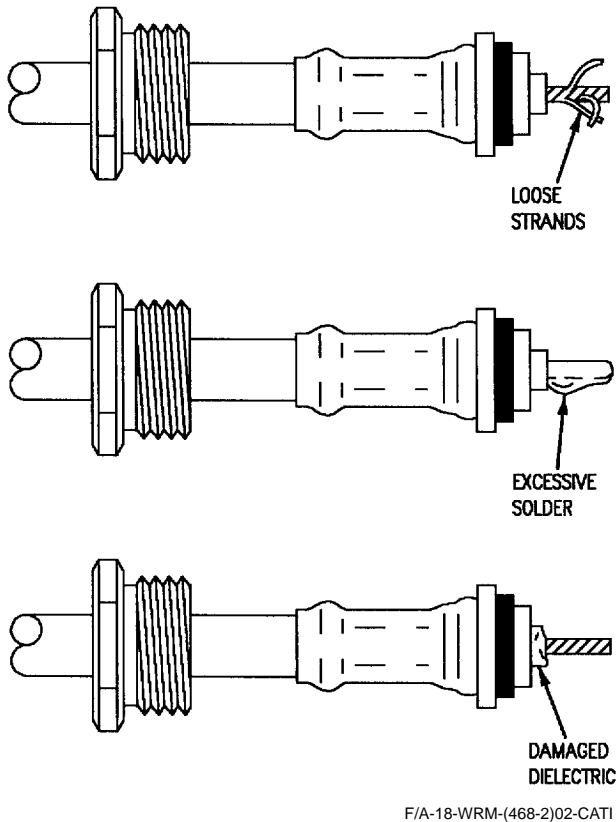


Figure 6. Unacceptable Conditions After Tinning

12. SOLDERING CONTACT TO CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup half full with solder. Avoid getting solder on outside of contact See figure 7.

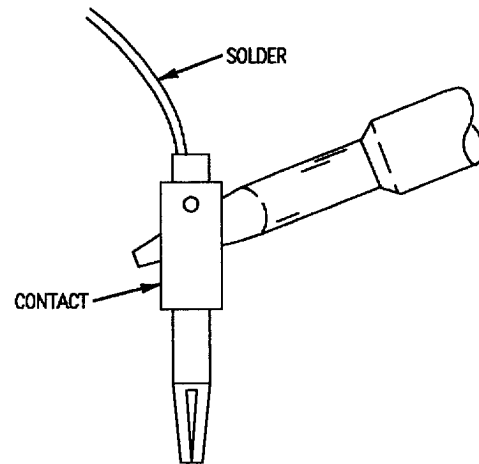


Figure 7. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 8.

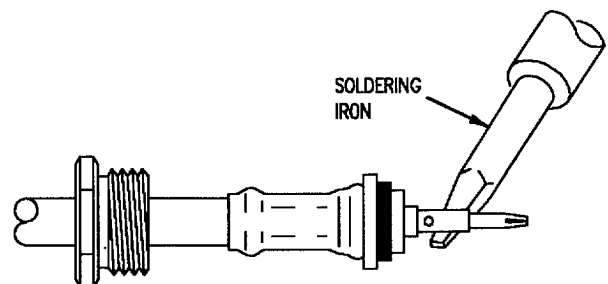


Figure 8. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 9

- (1) Too much solder.
- (2) Damaged dielectric.

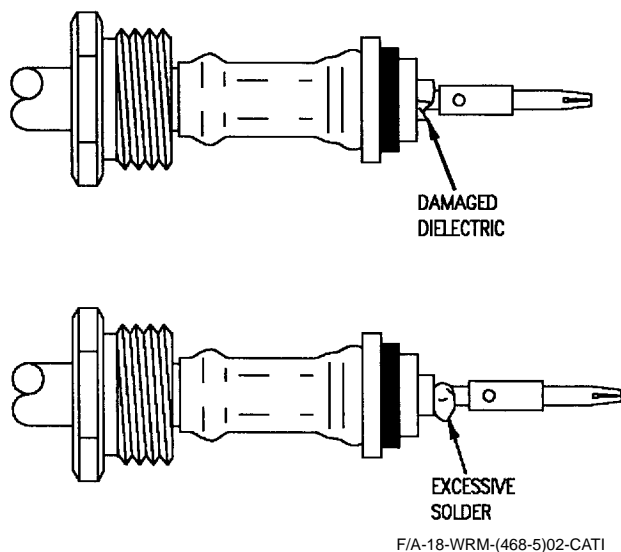


Figure 9. Unacceptable Conditions After Soldering Contact

13. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

14. DIE INSTALLATION.

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 10.
- b. Close handle to make sure dies are seated and locked in place.

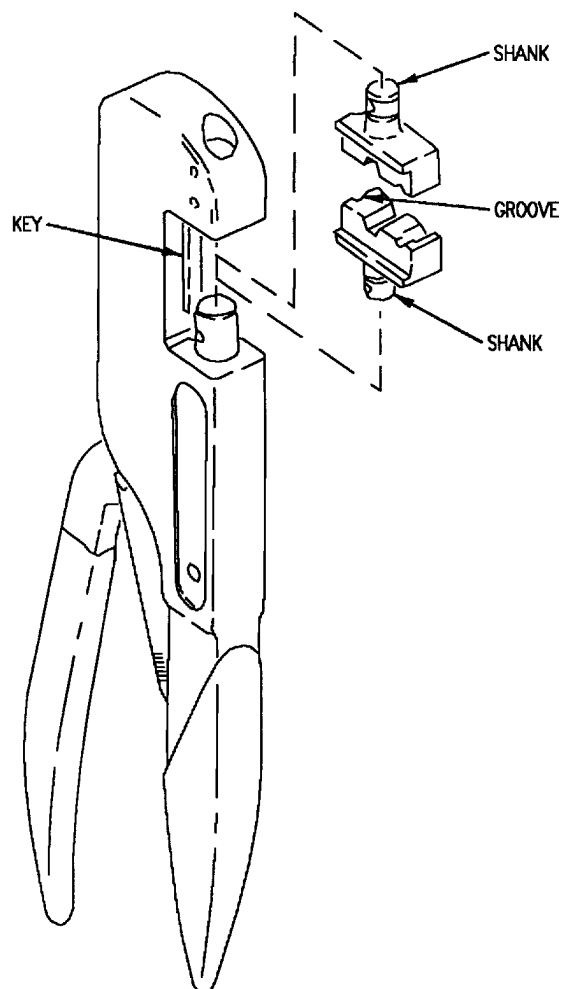
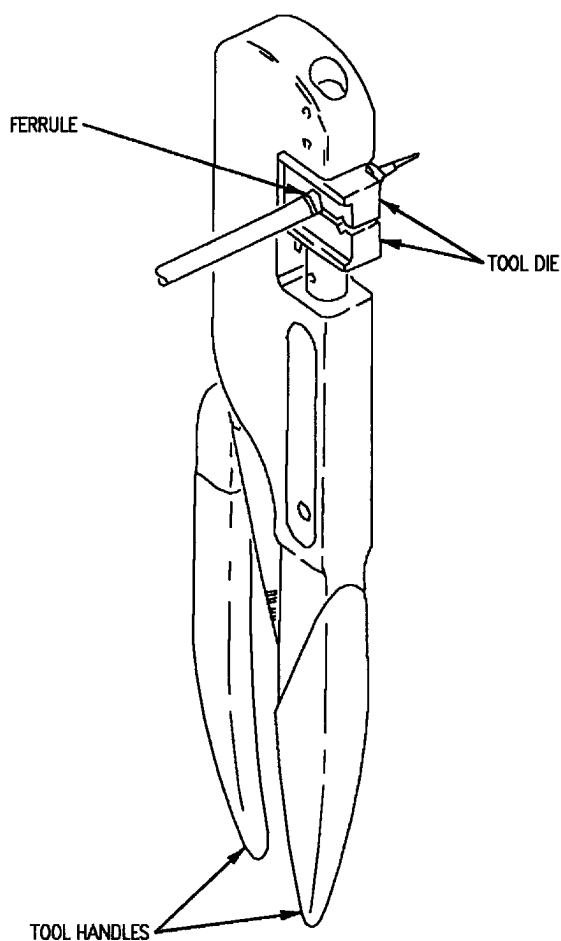


Figure 10. Die Installation

15. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 11.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

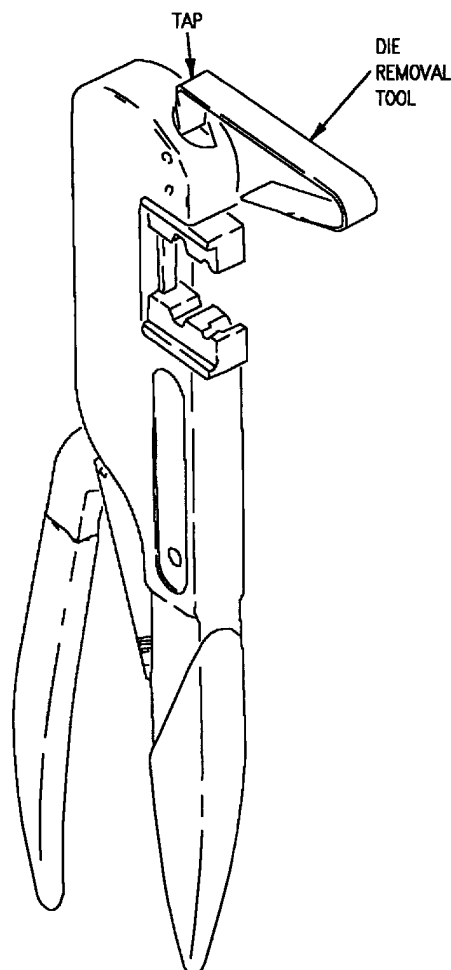


F/A-18-WRM-(410-1)01-SCAN

Figure 11. Crimping Operation**16. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 12.



F/A-18-WRM-(410-3)01-SCAN

Figure 12. Upper Die Removal

b. The die will be released from the lock spring 17 and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 13.

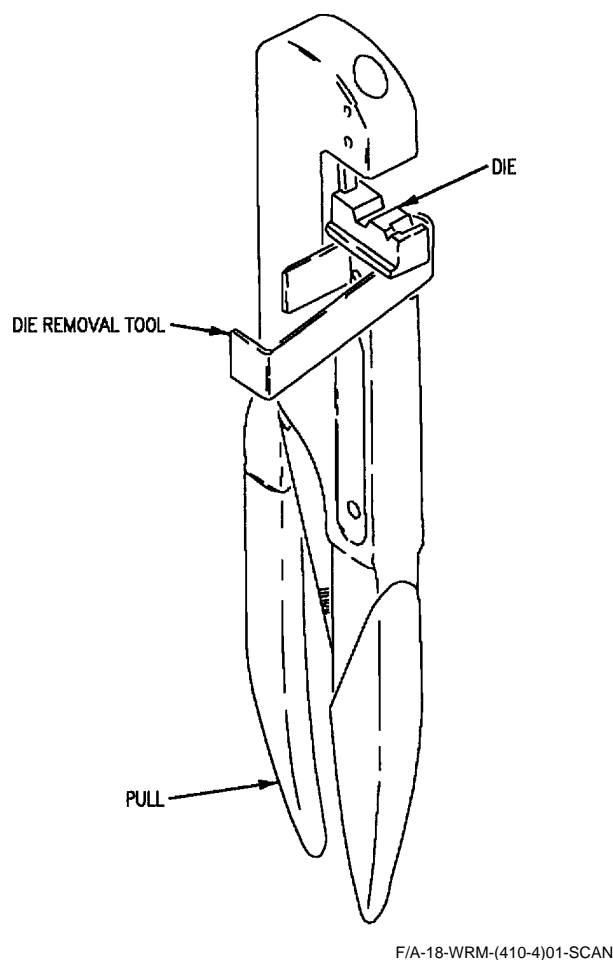


Figure 13. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

17. TRIM TOOL CA275-1 USE.

a. Slide tool over dielectric and against support assembly. See figure 14.

b. Slide knife along face of tool and carefully cut dielectric.

c. Remove dielectric and trim tool.

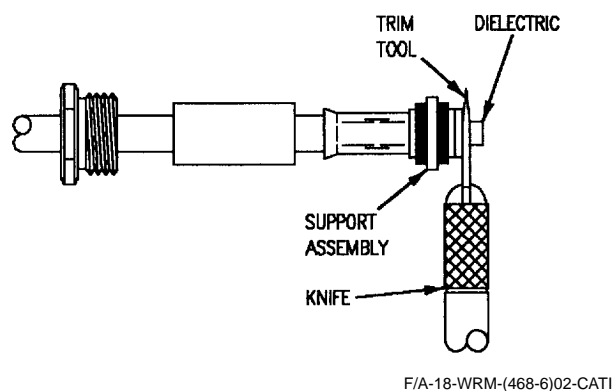
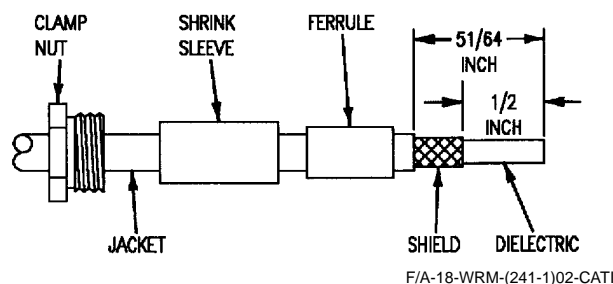


Figure 14. Trimming dielectric

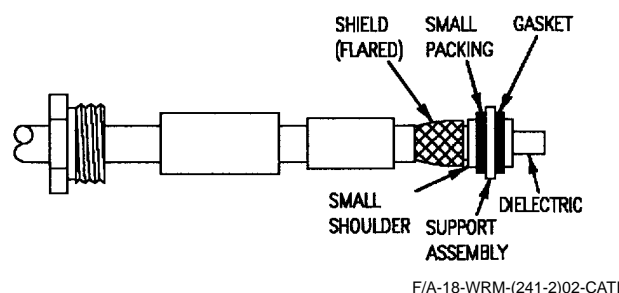


To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide clamp nut, shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 19/64-inch between blades (see paragraph 5). Strip cable jacket 51-64-inch and shield 1/2-inch.



2. Install small packing and gasket on support assembly. Slide support assembly over center conductor and under shield until shield is flush with small shoulder.



3. Slide ferrule over shield until it butts against small shoulder. Using M22520/05-35 die set and M22520-5-01 crimping tool frame, crimp ferrule in the "A" cavity of die set (see paragraph 13).

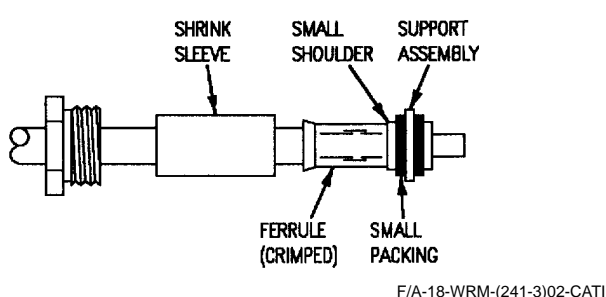


Figure 15. 4545-6010 Coaxial Connector Repair (Sheet 1)

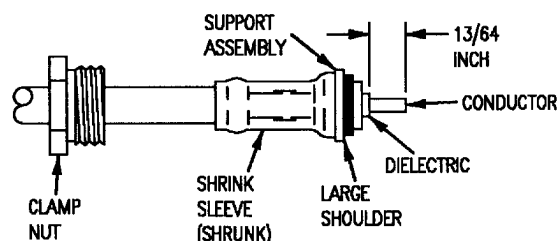
4. Slide shrink sleeve over ferrule until it butts against large shoulder of support assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

5. Shrink sleeve using heat tool and nitrogen servicing unit.



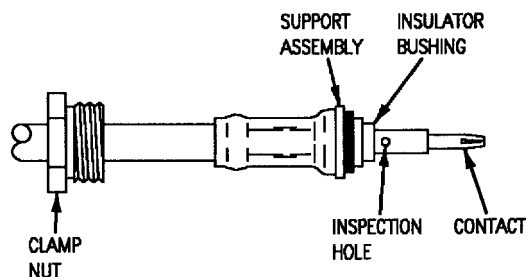
F/A-18-WRM-(241-4)02-CATI

CAUTION

To prevent premature failure of connector, do not nick center conductor when removing dielectric.

6. Using trim tool CA275-1 and sharp knife, remove dielectric (see paragraph 17).

7. Slide insulator bushing over dielectric and against support assembly. Using W60-3 soldering iron, tin center conductor. See paragraph 11. Using W60-3 soldering iron solder contact to center conductor (see paragraph 12).



F/A-18-WRM-(241-5)02-CATI

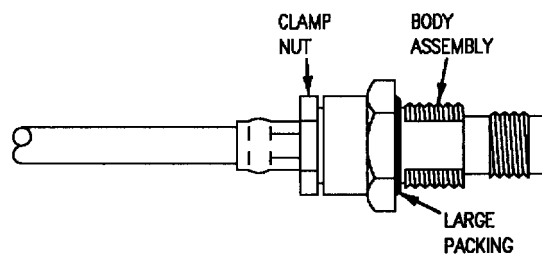
Figure 15. 4545-6010 Coaxial Connector Repair (Sheet 2)

8. Slide body assembly over contact until it stops.



To prevent damage to connector, do not allow connector body to turn while tightening clamp nut.

9. Slide clamp nut into body assembly and engage threads. Torque clamp nut 25 inch-pounds.



F/A-18-WRM-(241-6)02-CAT1

Figure 15. 4545-6010 Coaxial Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****SF4592-6005 (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index

Reference Designation	Figure No.
61P-A246C	10
61P-G244	10
61P-G245	10

1. DESCRIPTION.

2. The 4592-6005 right angle connector is a TNC-type coaxial connector. This connector meets the requirements of MIL-C-39012.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3
BT-ST-751-E	Torque Wrench, 0 to 50 Inch-Pounds

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve
FREON TF	Cleaning Compound

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

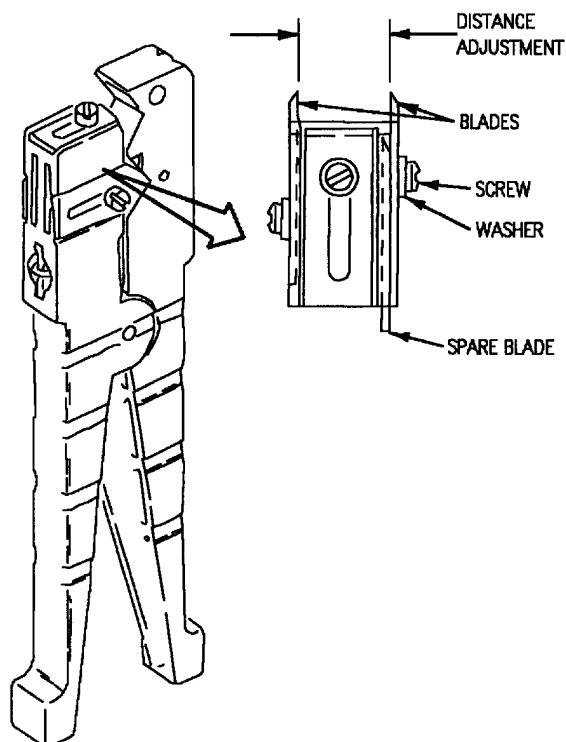
6. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will change distance between blades $\frac{3}{64}$ inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

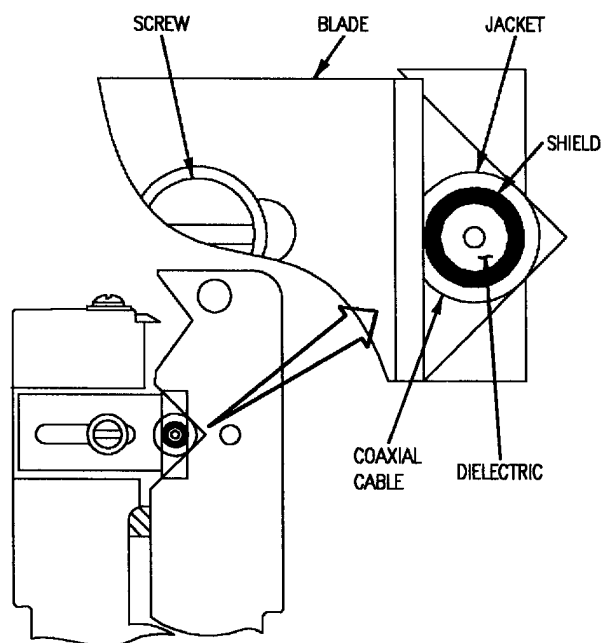
Figure 1. Distance Adjustment

7. DEPTH ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 2.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CAT1

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.

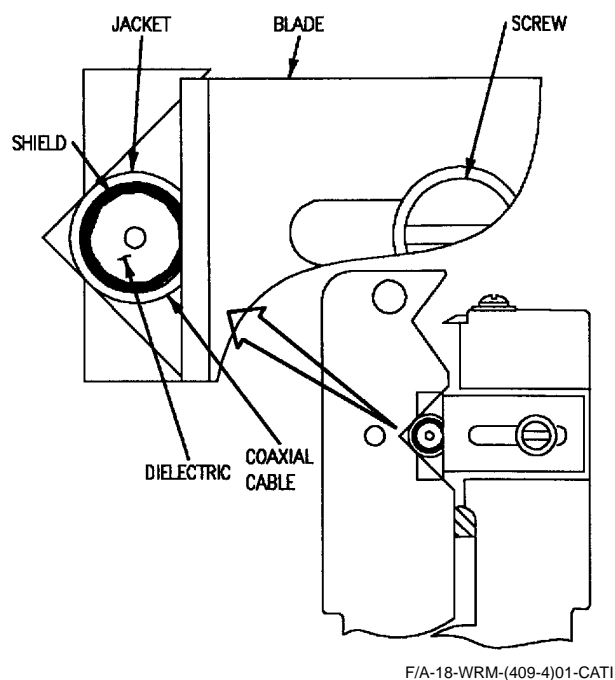


Figure 3. Shield Cut Adjustment

8. USE.

a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle blade side of stripper. Six to eight rotations will necessary to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.

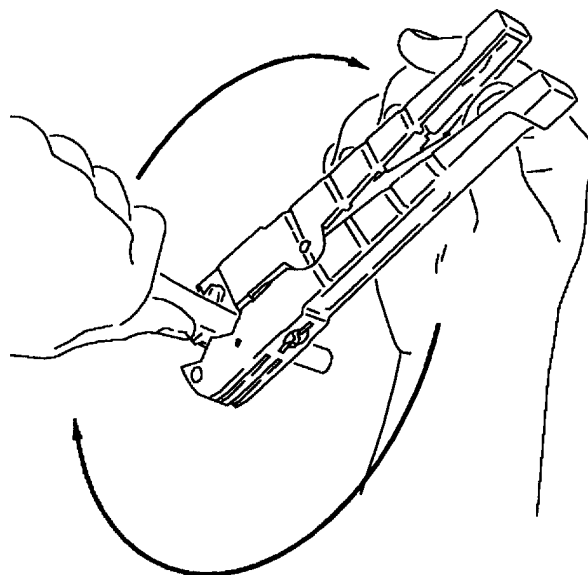
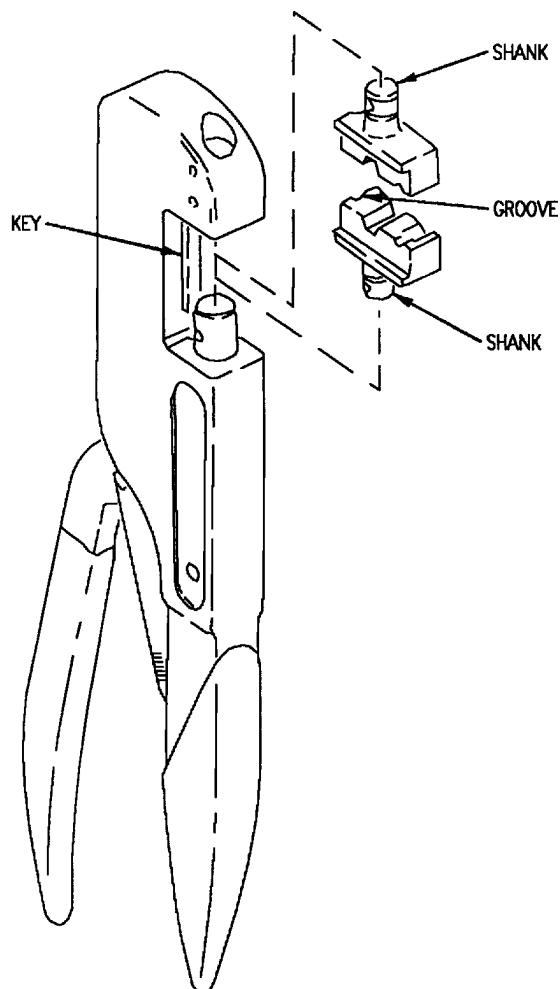


Figure 4. Operation

9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.**10. DIE INSTALLATION.**

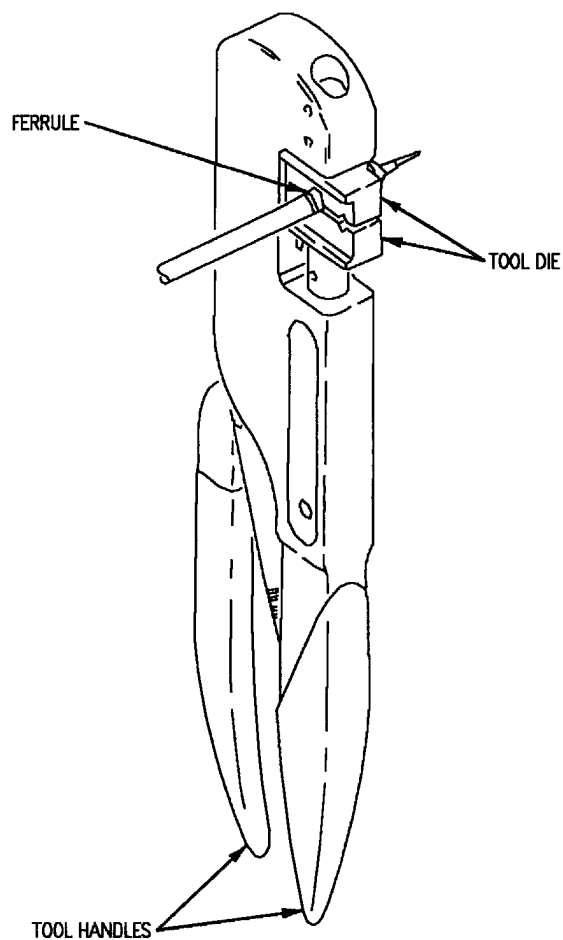
- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.



F/A-18-WRM-(410-2)02-SCAN

Figure 5. Die Installation**11. CRIMP PROCEDURE.**

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.



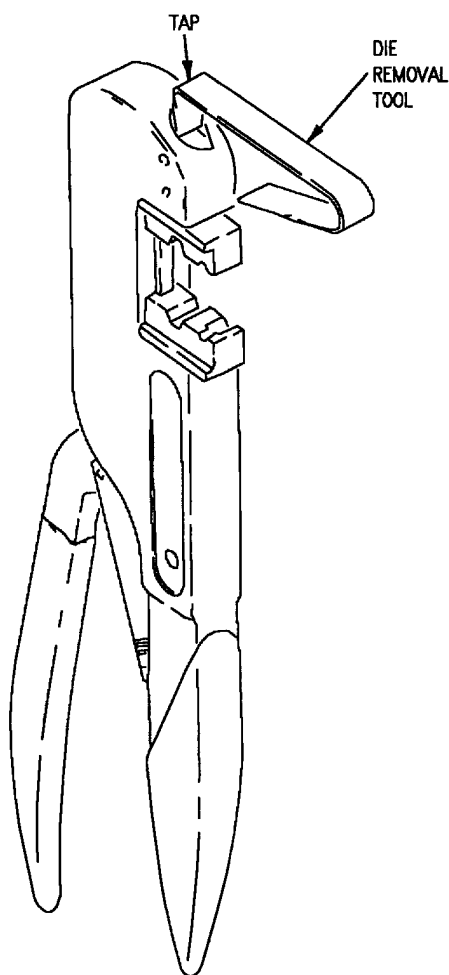
F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation

12. DIE REMOVAL.**NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

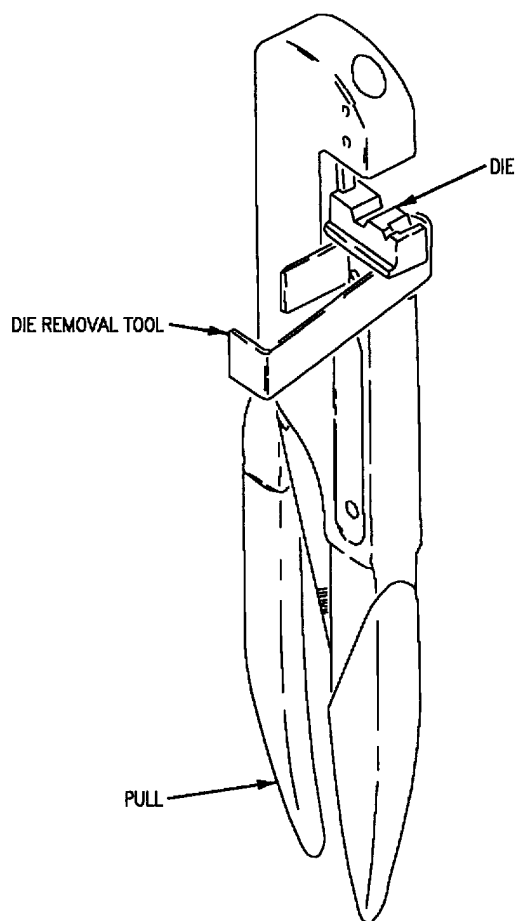


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



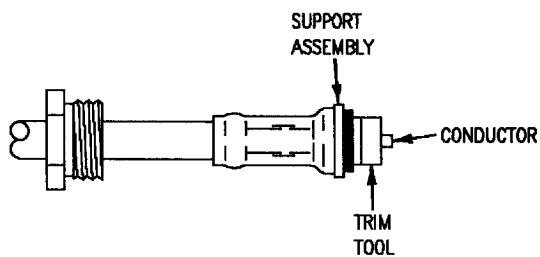
F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can be removed by hand.

13. CA275-2 TRIM TOOL USE.

- a. Position trim tool over conductor and against support assembly. See figure 9.
- b. Cut off conductor flush with trim tool.
- c. Remove trim tool.



F/A-18-WRM-(241-7)02-CATI

Figure 9. Trimming Center Conductor

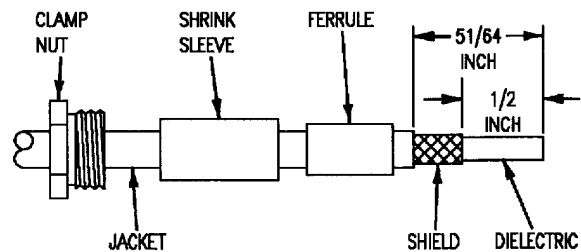
WARNING

FREON TF is an asphyxiant and toxic to skin and eyes. The vapor is hazardous and can cause death if too much is breathed. Vapor from one pint of liquid evaporated in a small room is nearly odorless but immediately dangerous to life or health. In case of spill, warn others and leave the area immediately. Avoid breathing vapors, avoid skin and eye contact. Do not use in open baths. Use minimal amounts with good ventilation.

CAUTION

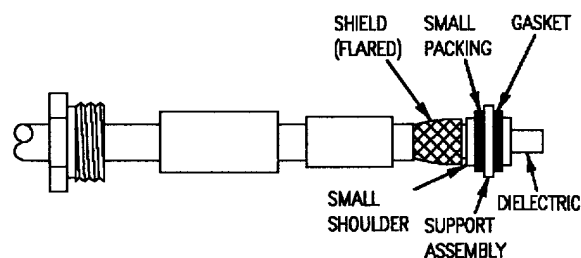
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Clean all metallic parts of connector with Cleaning Compound. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide clamp nut, shrink sleeve, and ferrule over cable. Adjust cable stripper 45-163 for cable, with 19/64-inch between blades (see paragraph 5). Strip cable jacket 51-64-inch and shield 1/2-inch.



F/A-18-WRM-(241-1)02-CAT1

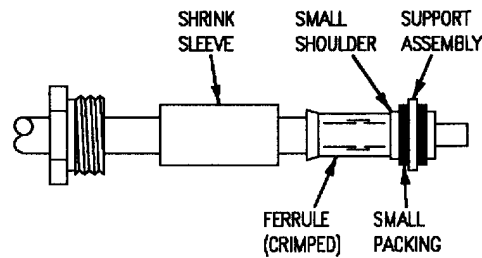
2. Remove foil from between shields. Clean stripped portion of cable with Cleaning Compound. Make sure small packing and gasket are installed on support assembly. Slide support assembly over dielectric and under shield until shield butts against small shoulder.



F/A-18-WRM-(241-2)02-CAT1

Figure 10. SF4592-6005 Coaxial Connector Repair (Sheet 1)

3. Slide ferrule forward against small shoulder. Using M22520/5-35 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(241-3)02-CATI

4. Slide shrink sleeve forward over small shoulder and small packing on support assembly.

WARNING

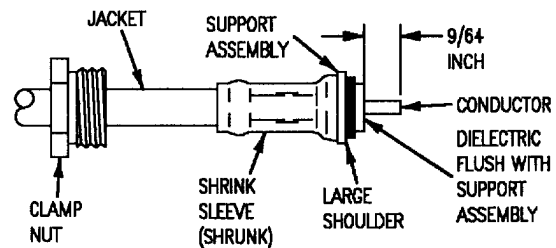
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion. Use of nitrogen with heat tool in an enclosed area is dangerous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

5. Shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent premature failure of connector, do not nick conductor while trimming dielectric.

6. Using sharp knife, trim dielectric flush with support assembly. Using trim tool CA275-2, trim conductor (see paragraph 13). Protect dielectric face and slightly chamfer end of conductor. Clean dielectric with cleaning compound.



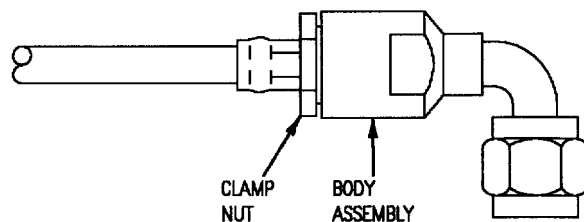
F/A-18-WRM-(242-1)02-CATI

Figure 10. SF4592-6005 Coaxial Connector Repair (Sheet 2)



To prevent damage to conductor, do not allow body assembly to turn while tightening clamp nut.

7. Insert cable assembly into body assembly and engage threads of clamp nut. Torque nut 25 inch-pounds.



F/A-18-WRM-(242-2)02-CATI

Figure 10. SF4592-6005 Coaxial Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

31-8473-5 (MIL-C-39012) TNC TYPE COAX CONNECTOR REPAIR

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Tinning Center Conductor, Figure 3	4
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Unacceptable Conditions After Tinning, Figure 4	4
31-8473-5 (MIL-C-39012) Coax Connector Repair, Figure 8	6

Record of Applicable Technical Directives

None

**Reference Designation to Figure
Number Index**

Reference Designation	Figure No.
67P-T001G	8

1. DESCRIPTION.

2. The 31-8473-5 coaxial connector is a single conductor, soldered pin plug (RG 316 cable) and has a temperature range of -85° to +257°F.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

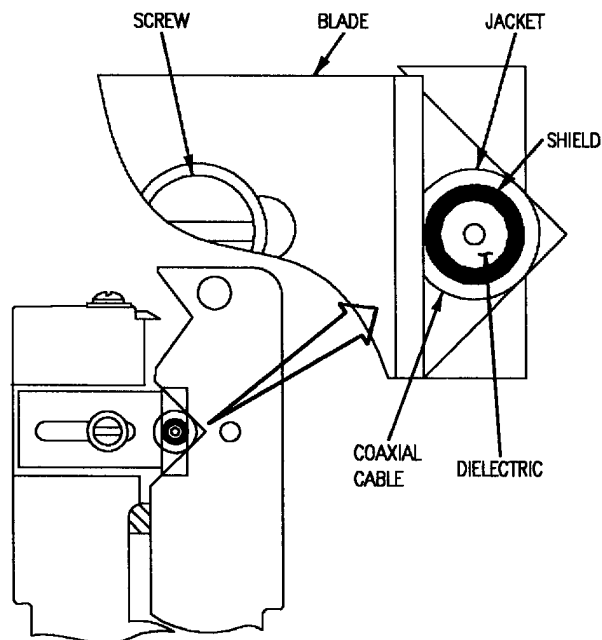
For detailed operation of coaxial wire strippers see WP010 00.

6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 1.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CATI

Figure 1. Jacket Cut Adjustment

- Adjust other blade so blade does not touch cable.

- If necessary, repeat steps 6a through 6c until blade cuts through jacket without damaging shield.

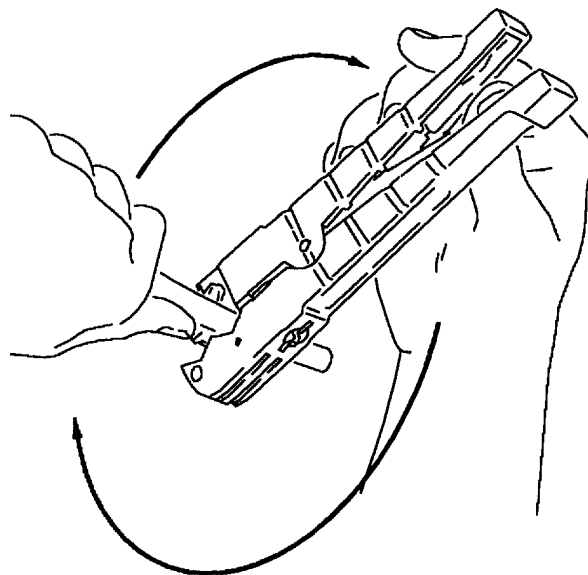
7. USE.

- Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- Remove stripper from cable.
- Remove stripped jacket.



F/A-18-WRM-(409-1)01-SCAN

Figure 2. Operation

8. SOLDERING.

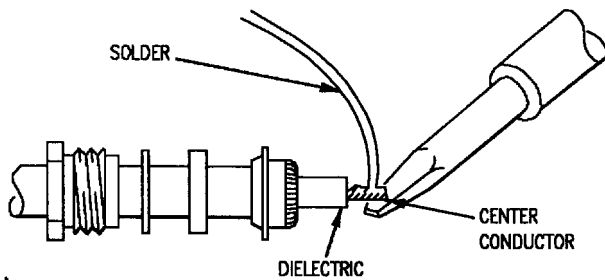
9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.

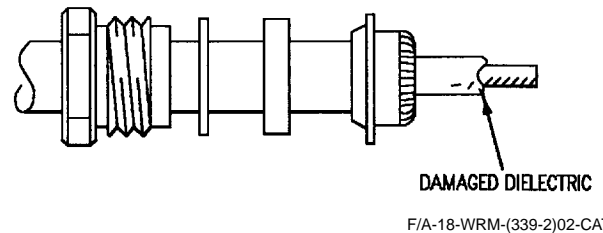
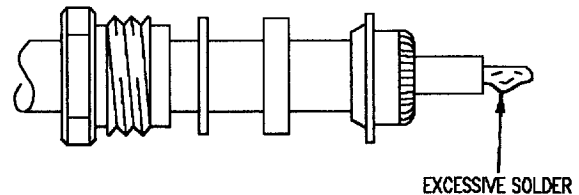
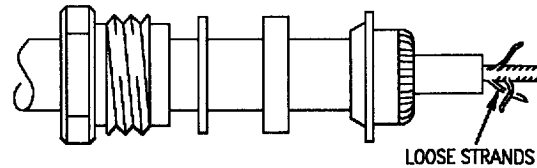


F/A-18-WRM-(339-1)02-CAT1

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.



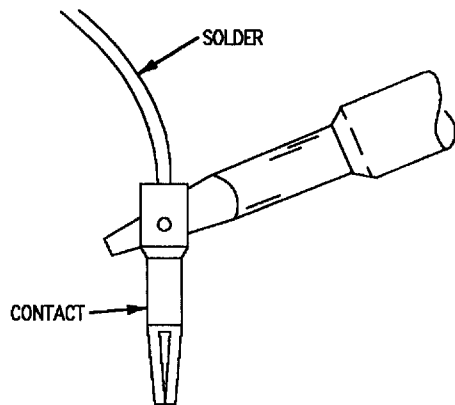
F/A-18-WRM-(339-2)02-CAT1

Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR.

a. Clean and tin soldering iron.

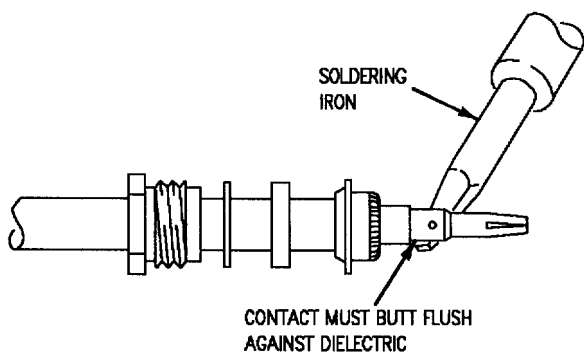
b. Apply heat to contact solder cup and fill cup half full with solder. Avoid getting solder on outside of contact. See figure 5.



F/A-18-WRM-(836-1)02-CATI

Figure 5. Filling Solder Cup

c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 6.



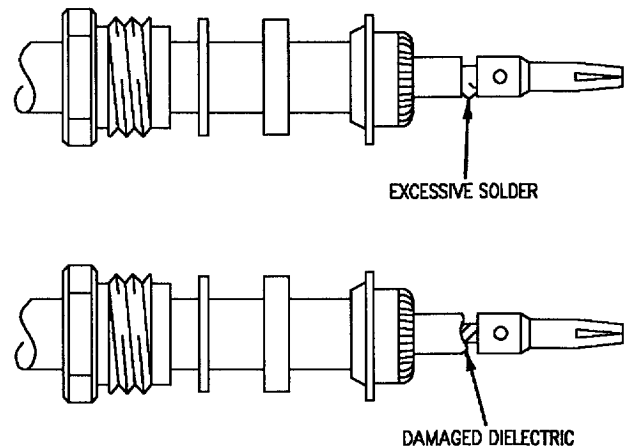
F/A-18-WRM-(836-2)02-CATI

Figure 6. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 7.

(1) Too much solder.

(2) Damaged dielectric.



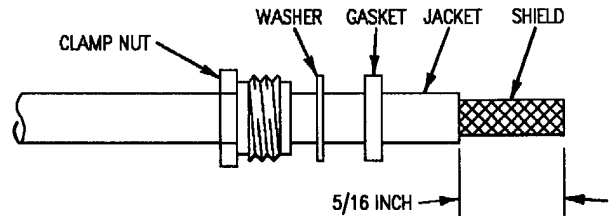
F/A-18-WRM-(836-3)02-CATI

Figure 7. Unacceptable Conditions After Soldering Contact



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-163 adjusted for cable, remove 5/16-inch of jacket. See paragraph 5.



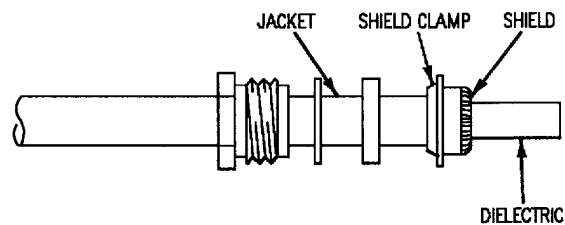
F/A-18-WRM-(235-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield strands must be smoothly and evenly distributed around face of shield clamp.

3. Comb and flare out shield. Fold shield over shield clamp and trim even with face of shield clamp.



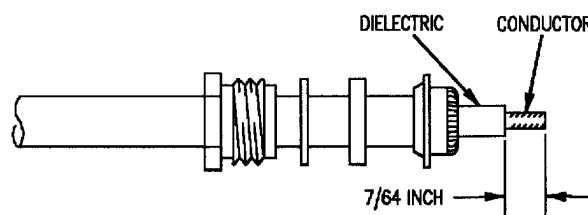
F/A-18-WRM-(192-2)02-CATI

Figure 8. 31-8473-5 (MIL-C-39012) Coax Connector Repair (Sheet 1)



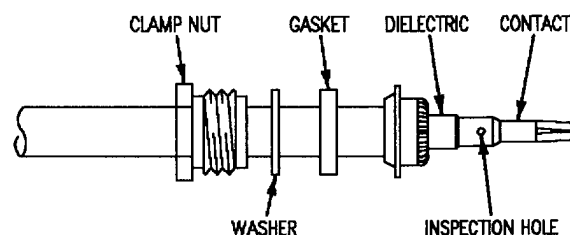
To prevent premature failure of connector, do not nick center of conductor while trimming dielectric.

4. Using sharp knife remove $7/64$ -inch of dielectric.



F/A-18-WRM-(248-1)02-CATI

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(248-2)02-CATI

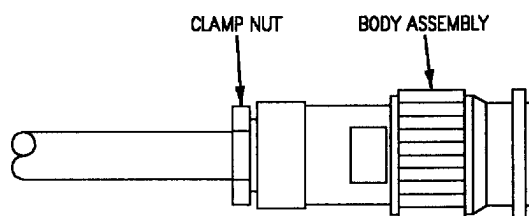
Figure 8. 31-8473-5 (MIL-C-39012) Coax Connector Repair (Sheet 2)

6. Slide body assembly over contact until it stops. Slide gasket, washer, and hex nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

7. While supporting body assembly, torque clamp nut to 40 inch-pounds minimum using BT-ST-751 torque wrench.



F/A-18-WRM-(248-3)02-CAT1

Figure 8. 31-8473-5 (MIL-C-39012) Coax Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

82-5770, 82-5772-X, 82-5773-X, 82-5967-X AND 82-5992 (MIL-C-49142) TNC TYPE
TRIAx CONNECTOR REPAIR

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00

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82-5772-3 Triaxial Connector Repair, Figure 16	14
82-5772-4 Triaxial Connector Repair, Figure 16	14
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82-5773 Triaxial Connector Repair, Figure 17	18
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82-5773-3 Triaxial Connector Repair, Figure 17	18
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82-5967-1 Triaxial Connector Repair, Figure 18	22
82-5967-3 Triaxial Connector Repair, Figure 18	22
82-5967-5 Triaxial Connector Repair, Figure 18	22
82-5992 Triaxial Connector Repair, Figure 15	11

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade (ECP MDA-F/A-18-00560R1)	15 Apr 02	-
F18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Up- grade (ECP MDA-F/A-18-00583)	15 Apr 02	-

Reference Designation to Figure Number Index

Reference Designation	Figure No.
61J-E018	15
61J-E166	15
61J-E176	15
61J-F036	15
61J-F037	15
61J-F038	15
61J-F039	15
61J-R036	15
61J-R037	15
61J-R038	15
61J-R039	15
61J-R175	15
61J-U027	15
61J-V026	15
61J-E018	17
61J-E166	17
61P-E176	17
61P-F001C	16
61P-F001D	16
61P-F001E	16
61P-F001F	16
61P-F001G	16
61P-F001H	16
61P-F001J	16
61P-F001K	16
61P-F001M	16
61P-F036	17
61P-F037	17
61P-F038	17
61P-F039	17
61P-P169	17
61P-R170	16
61P-U027	17
61P-U041	17
61P-U265	17
61P-V026	17
61P-V042	17
61P-V266	17

1. DESCRIPTION.

2. The TNC-type triaxial connector is a threaded coupling connector used with triaxial cable. These connectors meet the requirements of MIL-C-49142.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
MMS-809	Shrink Sleeve

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

6. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will change distance between blade $3/64$ inch.

- Install screws and handtighten.
- Adjust depth of cut.

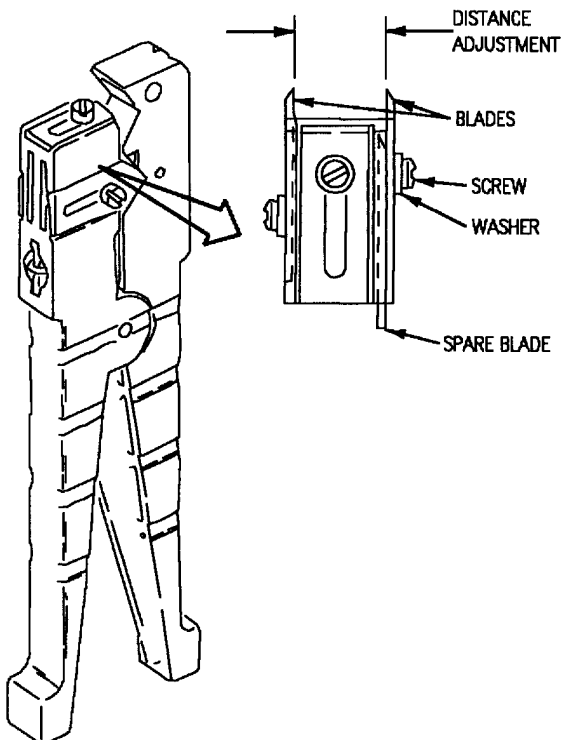


Figure 1. Distance Adjustment

7. OUTER JACKET AND SHIELD CUT ADJUSTMENT.

NOTE

Before stripping triax, a test strip must be done on spare triax.

- Position triaxial cable in stripper until the end butts against the blade. See figure 2.
- Adjust blade so it cuts through outer jacket without nicking outer shield and tighten screw.

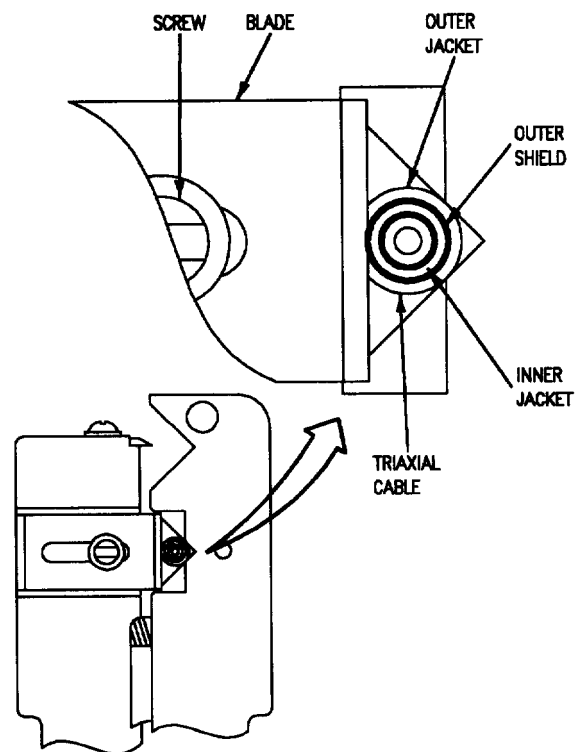


Figure 2. Outer Jacket Cut Adjustment

c. Remove triaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If required, repeat steps 7.a. through 7.d. until blades cut through jacket and shield without damaging shield and dielectric.

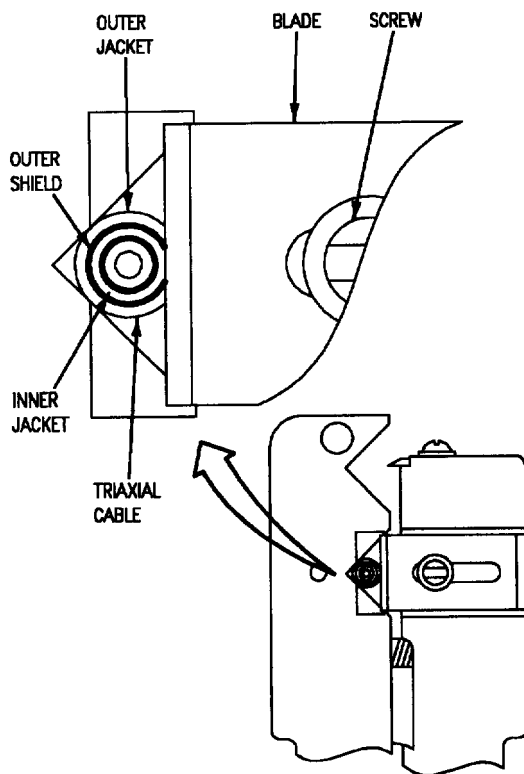


Figure 3. Outer Shield Cut Adjustment

8. INNER JACKET CUT ADJUSTMENT.

a. Position cable in stripper until the end butts against blade. See figure 4.

b. Adjust blade so it cuts through inner jacket without nicking conductor and tighten screw.

c. Adjust other blade so it does not touch cable.

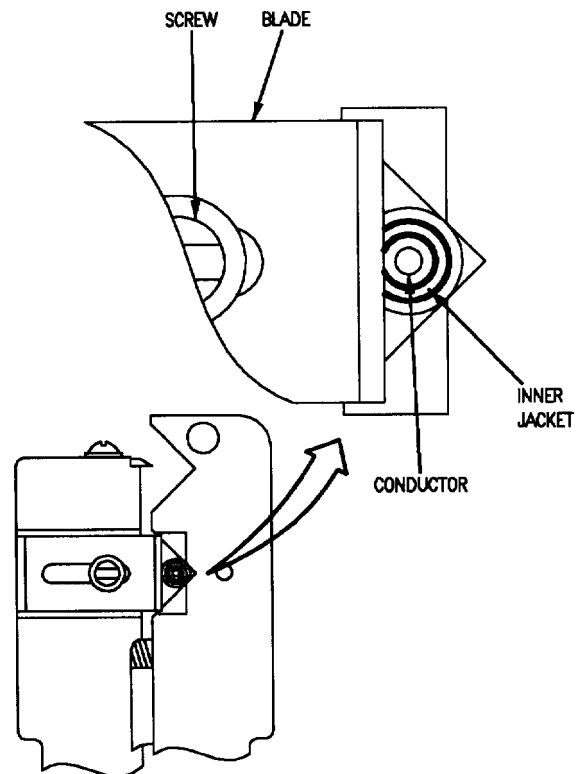


Figure 4. Inner Jacket Cut Adjustment

9. USE.

- a. Position stripper on cable so that blades face down. See figure 5.

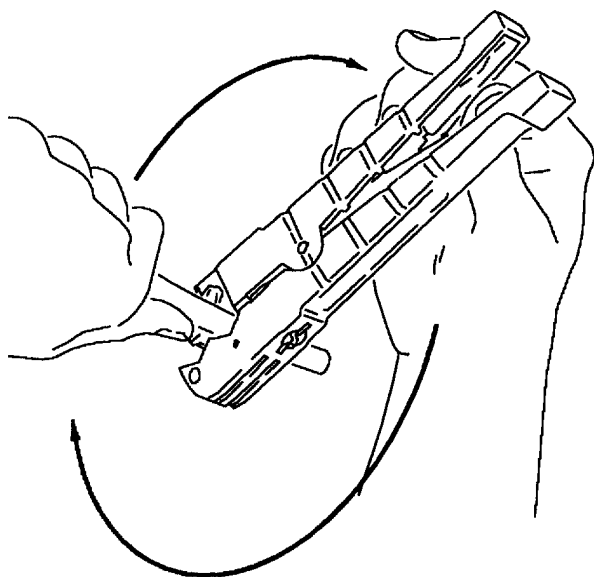
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations are required to finish cut.

- c. Remove stripper from cable.

- d. Remove stripped jacket and shield.

**Figure 5. Operation****10. SOLDERING.**

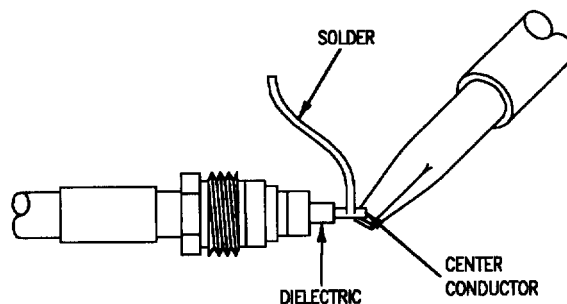
11. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

12. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.

- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

- c. Apply heat until solder flows into conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires must be coated with solder keeping their shape visible. See figure 6.

**Figure 6. Tinning Center Conductor**

- d. The below conditions are unacceptable: See figure 7.

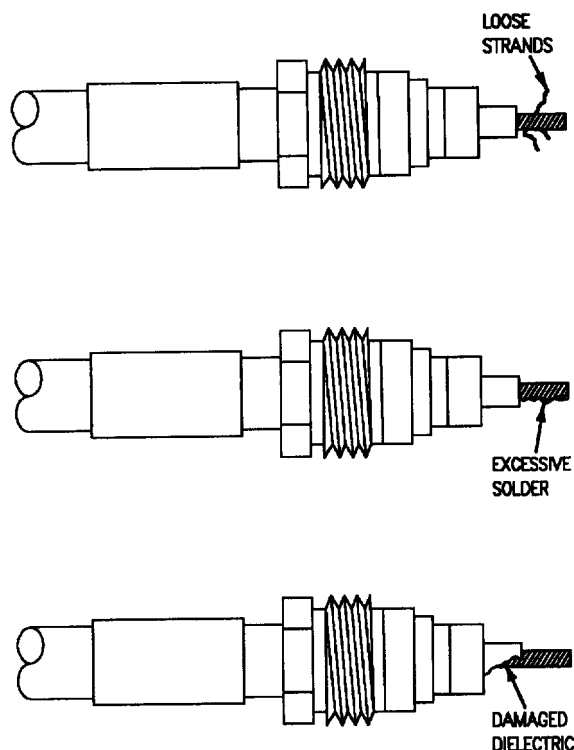


Figure 7. Unacceptable Conditions After Tinning

13. SOLDERING CONTACT TO CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 8.

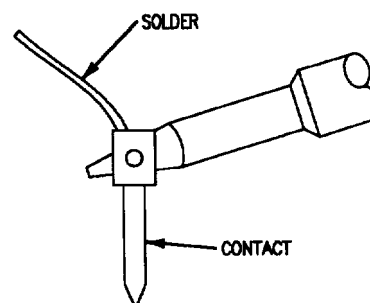


Figure 8. Filling Solder Cup

c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 9.

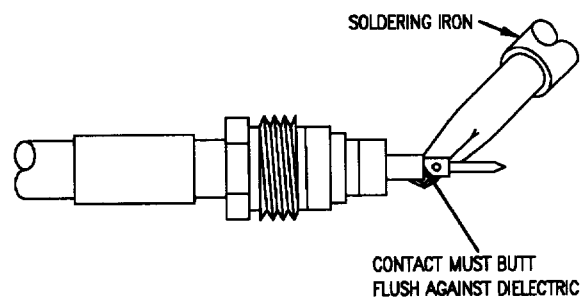


Figure 9. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder must be shiny and flow smoothly from center conductor to contact. See figure 10. The following conditions are unacceptable:

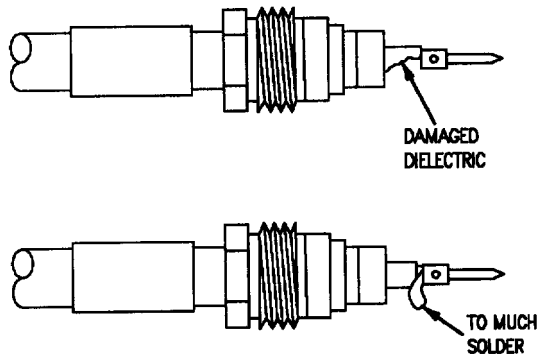


Figure 10. Unacceptable Conditions After Soldering Contact

14. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

15. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 11.

b. Close handle to make sure dies are seated and locked in place.

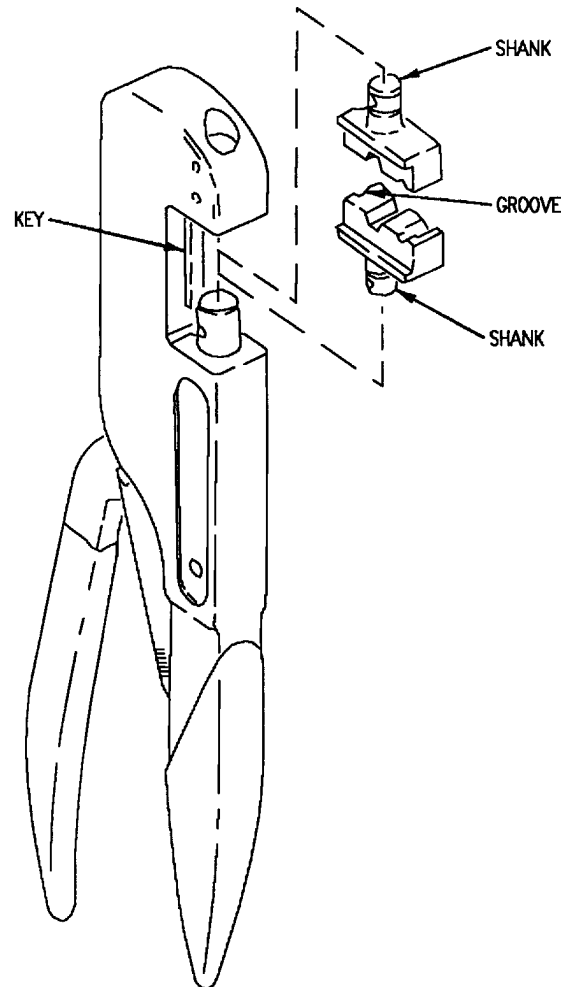


Figure 11. Die Installation

16. CRIMP PROCEDURE.

- Position items to be crimped in correct cavity of dies. See figure 12.
- Squeeze tool handles until ratchet releases.
- Open handles and remove terminal and wire assembly and inspect crimp.

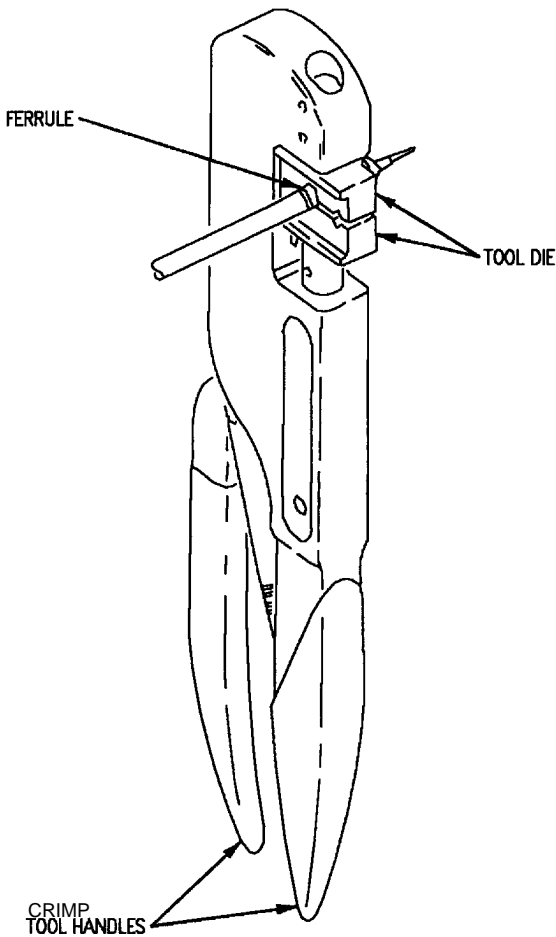


Figure 12. Crimping Operation

17. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimp tool. If removal tool is not available, a rod 3/16-inches may be used.

- With crimp tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 13.

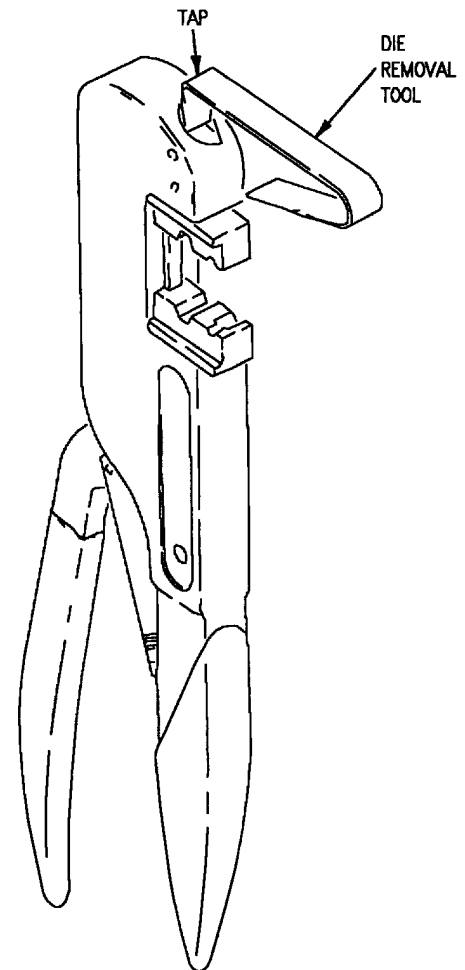


Figure 13. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimp tool handle and slide the die removal tool between the die and tool body. See figure 14.

d. Pull handle open with a snap action. The die must be released from the lock spring and can then be removed by hand.

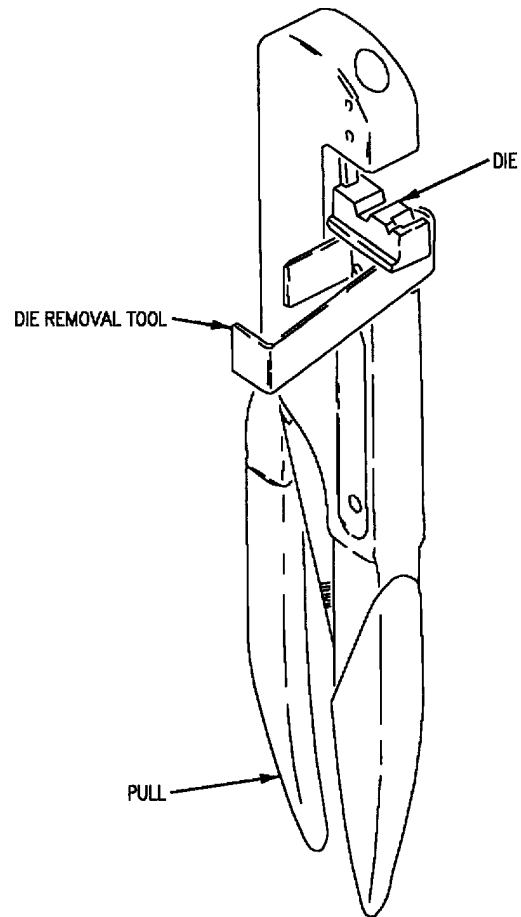
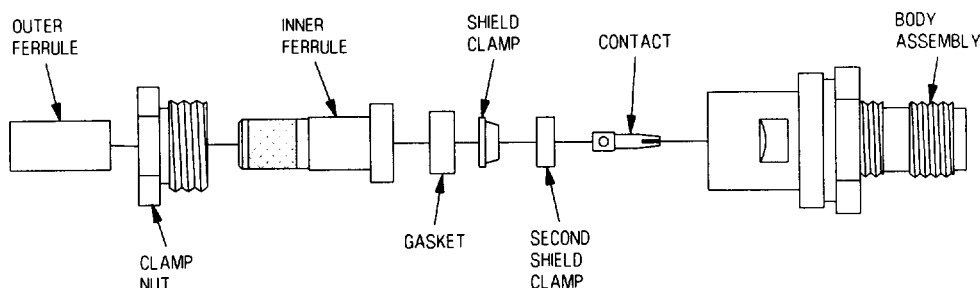


Figure 14. Lower Die Removal

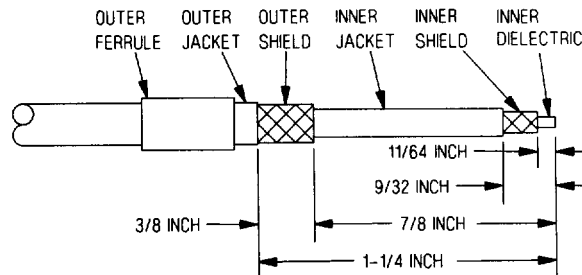
CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Parts and assembly sequence.



2. Using 45-123 wire cutters, cut end of cable square. Slide outer ferrule over cable. Adjust cable stripper 45-163 for cable with 3/8-inch between blades (see paragraph 5). Strip outer jacket 1-1/4 inch and outer shield 7/8-inch. Strip inner jacket 9/32-inch and inner dielectric 11/64-inch.



3. Flare outer shield. Place inner ferrule into clamp nut. Slide clamp nut/inner ferrule over inner jacket and under outer shield until shield butts against clamp nut and ferrule is stopped by the cable jacket.

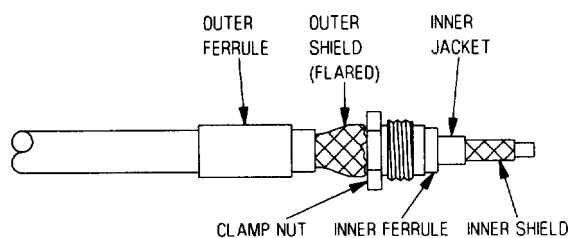
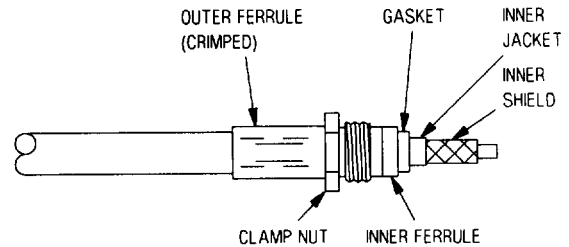
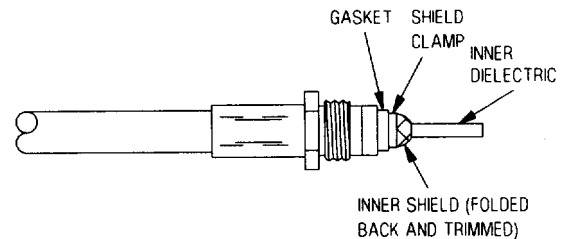


Figure 15. 82-5770 and 82-5992 Triaxial Connector Repair (Sheet 1)

4. Slide outer ferrule forward over shield and against back of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimp tool, crimp outer ferrule in the "A" cavity of die set. Next slide crimp tool back toward cable, rotate crimp tool 45 degrees, and double crimp ferrule in order to crimp down on as much jacket as possible to obtain improved strain relief (see paragraph 14). Slide gasket over inner jacket and against inner ferrule.



5. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



6. Slide second shield clamp over inner dielectric, inner shield and against first shield clamp.



To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

7. Using a sharp knife, remove inner dielectric such that 3/32-inch of conductor is exposed. Using W60-3 soldering iron, tin center conductor (see paragraph 12).

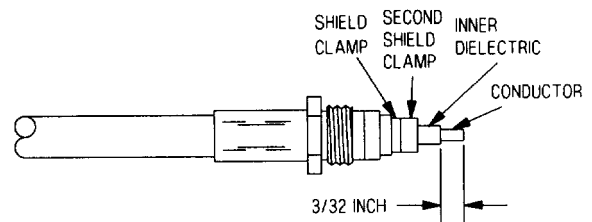
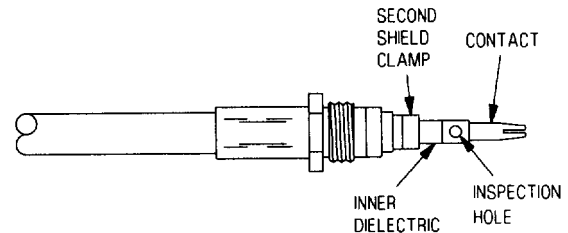


Figure 15. 82-5770 and 82-5992 Triaxial Connector Repair (Sheet 2)

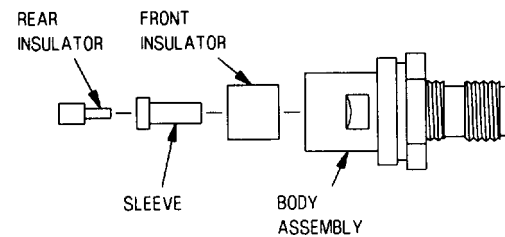
NOTE

When soldering contact, conductor must be visible through inspection hole.

8. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



9. Slide front insulator, sleeve and rear insulator into connector body assembly if these pieces are not already installed into the body assembly of the connector.



CAUTION

Do not allow body assembly to rotate on cable while tightening clamp nut.

10. Slide body assembly over contact/cable assembly. While holding body assembly stationary, engage clamp nut to body assembly, tighten clamp nut finger tight. Torque clamp nut, using BT-ST-751 torque wrench, to 43 inch-pounds.

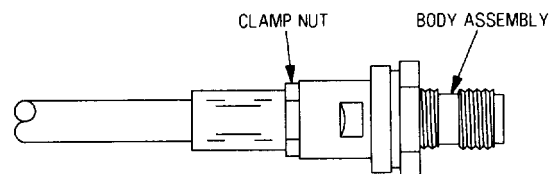
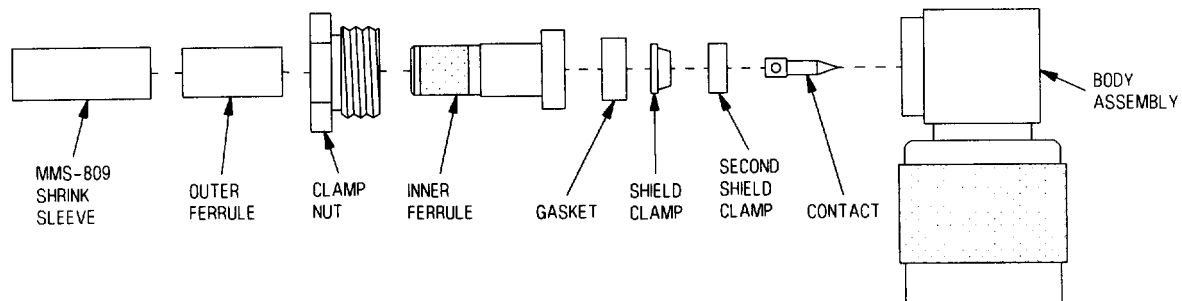


Figure 15. 82-5770 and 82-5992 Triaxial Connector Repair (Sheet 3)

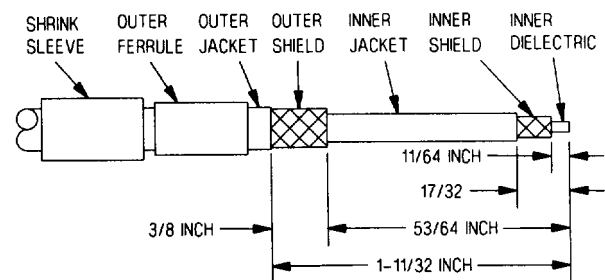


To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00 respectively. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Parts and assembly sequence.



2. Using 45-123 wire cutters, cut end of cable square. Cut a section of MMS-809 shrink sleeve approximately 3/8-inch longer than outer ferrule. Slide MMS-809 shrink sleeve and outer ferrule over cable. Adjust cable stripper 45-163 for cable with 3/8-inch between blades (see paragraph 5). Strip outer jacket 1-11/32 inch and outer shield 53/64-inch. Strip inner jacket 17/32-inch and inner dielectric 11/64-inch.



3. Flare outer shield. Place inner ferrule into clamp nut. Slide clamp nut/inner ferrule over inner jacket and under outer shield until shield butts against clamp nut and end of ferrule is stopped by the cable jacket.

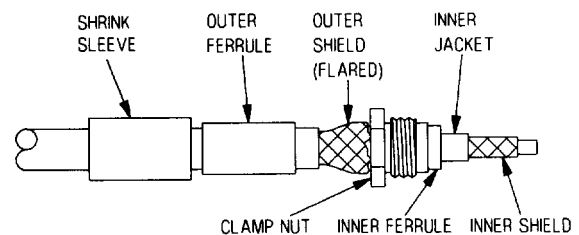
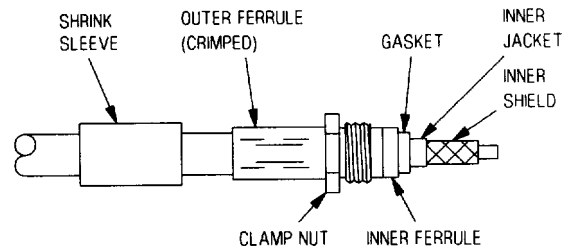
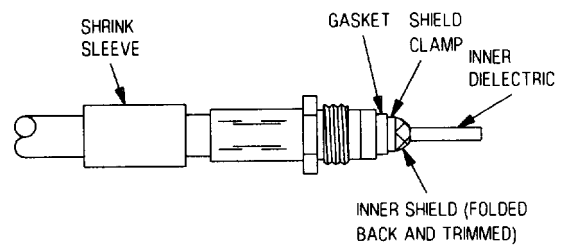


Figure 16. 82-5772, 82-5772-1, 82-5772-2, 82-5772-3, 82-5772-4 and 82-5772-5 Triaxial Connector Repair (Sheet 1)

4. Slide outer ferrule forward over shield against back of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimp tool crimp outer ferrule in the "A" cavity of die set. Slide crimp tool back toward cable, rotate crimp tool 45 degrees, and double crimp ferrule in order to crimp down on as much jacket as possible to obtain improved strain relief (see paragraph 14). Slide gasket over inner jacket and against inner ferrule.



5. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



6. Slide second shield clamp over inner dielectric, inner shield and against first shield clamp.



To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

7. Using a sharp knife, remove inner dielectric so that 3/32-inch of conductor is exposed. Using W60-3 soldering iron, tin center conductor (see paragraph 12).

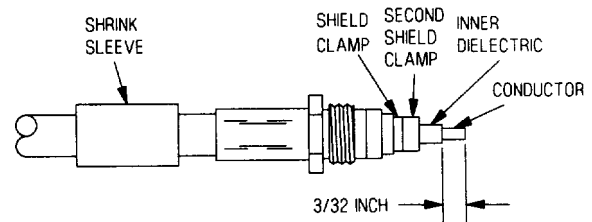
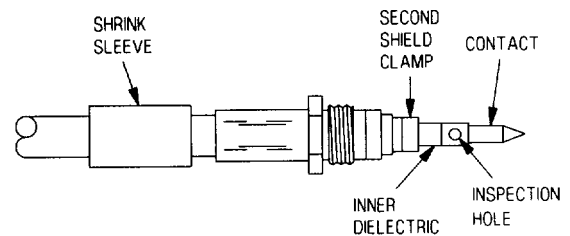


Figure 16. 82-5772, 82-5772-1, 82-5772-2, 82-5772-3, 82-5772-4 and 82-5772-5 Triaxial Connector Repair (Sheet 2)

NOTE

When soldering contact, conductor must be visible through inspection hole.

8. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



9. Slide shrink sleeve over outer ferrule until it butts against clamp nut.

WARNING

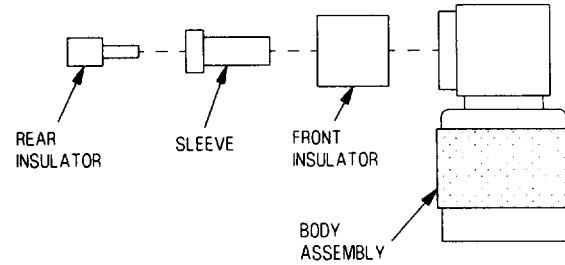
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a badly ventilated area such as wheel wells, stand-up bays or crew stations can result in asphyxiation.

10. Shrink sleeve using heat tool and nitrogen servicing unit.

Figure 16. 82-5772, 82-5772-1, 82-5772-2, 82-5772-3, 82-5772-4 and 82-5772-5 Triaxial Connector Repair (Sheet 3)

11. Slide front insulator, sleeve, and rear insulator into connector body assembly if these pieces are not already assembled into the body assembly of the connector.



Do not allow body assembly to rotate on cable while tightening clamp nut. Rotate body assembly only when assembled.

12. Slide body assembly over contact/cable assembly. While holding body assembly stationary, engage clamp nut to connector body assembly, tighten clamp nut finger tight. Torque clamp nut, using BT-ST-751 torque wrench, to 43 inch-pounds.

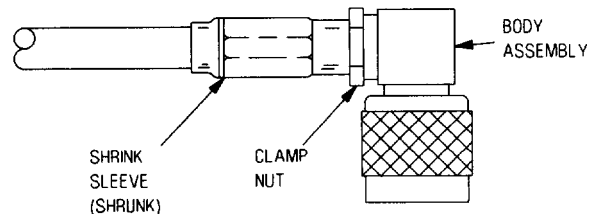
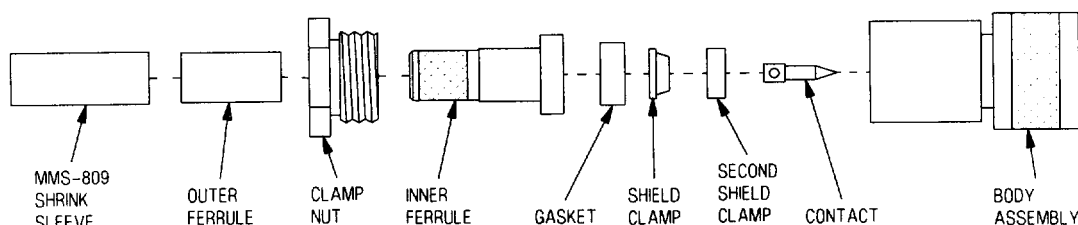


Figure 16. 82-5772, 82-5772-1, 82-5772-2, 82-5772-3, 82-5772-4 and 82-5772-5 Triaxial Connector Repair (Sheet 4)

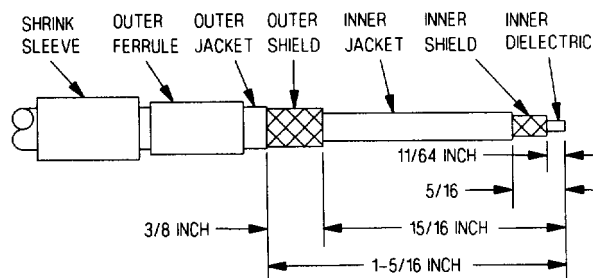


To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Parts and assembly sequence.



2. Using 45-123 wire cutters, cut end of cable square. Cut a section of MMS-809 sleeving approximately 3/8-inch longer than outer ferrule. Slide MMS-809 shrink sleeve and outer ferrule over cable. Adjust cable stripper 45-163 for cable with 3/8-inch between blades (see paragraph 5). Strip outer jacket 1-5/16 inch and outer shield 15/16-inch. Strip inner jacket 5/16-inch and inner dielectric 11/64-inch.



3. Flare outer shield. Place inner ferrule into clamp nut. Slide clamp nut/inner ferrule over inner jacket and under outer shield until shield butts against clamp nut and end of ferrule is stopped by the cable jacket.

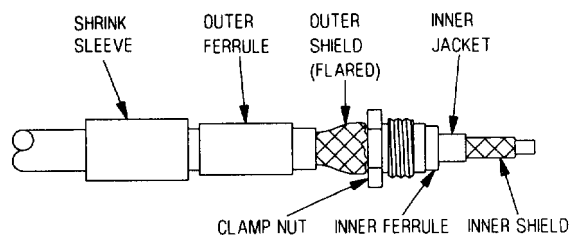
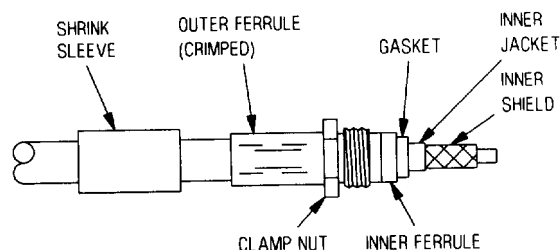
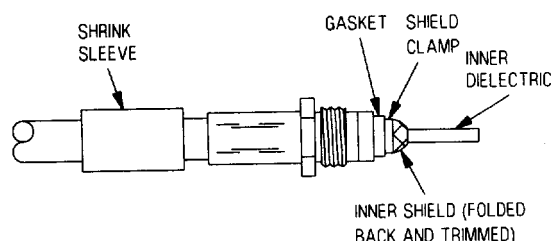


Figure 17. 82-5773, 82-5773-1, 82-5773-3 and 82-5773-5 Triaxial Connector Repair (Sheet 1)

4. Slide outer ferrule forward over shield and against back of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimp tool, crimp outer ferrule in the "A" cavity of die set. Slide crimp tool back toward cable, rotate crimp tool 45 degrees, and double crimp ferrule in order to crimp down on as much jacket as possible for improved strain relief (see paragraph 14). Slide gasket over inner jacket and against inner ferrule.



5. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



6. Slide second shield clamp over inner dielectric, inner shield and against first shield clamp.



To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

7. Using a sharp knife, remove inner dielectric so that 3/32-inch of conductor is exposed. Using W60-3 soldering iron, tin center conductor (see paragraph 12).

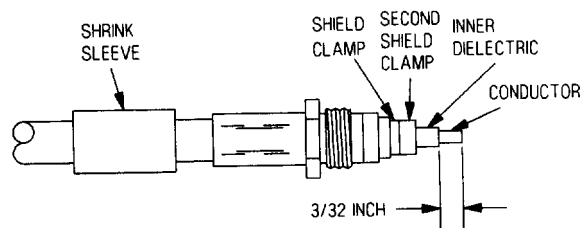
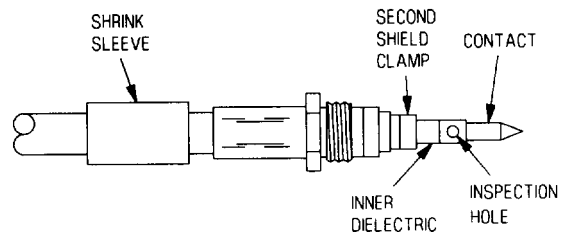


Figure 17. 82-5773, 82-5773-1, 82-5773-3 and 82-5773-5 Triaxial Connector Repair (Sheet 2)

NOTE

When soldering contact, conductor must be visible through inspection hole.

8. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



9. Slide shrink sleeve over outer ferrule until it butts against clamp nut.

WARNING

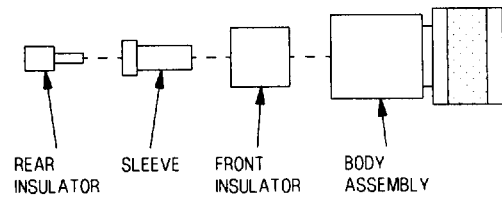
To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a badly ventilated area such as wheel wells, stand-up bays or crew stations can result in asphyxiation.

10. Shrink sleeve using heat tool and nitrogen servicing unit.

Figure 17. 82-5773, 82-5773-1, 82-5773-3 and 82-5773-5 Triaxial Connector Repair (Sheet 3)

11. Slide front insulator, sleeve and rear insulator into connector body assembly if these pieces are not already assembled into body assembly connector.



Do not allow body assembly to rotate on cable while tightening clamp nut.

12. Slide body assembly over contact/cable assembly. While holding body assembly stationary, engage clamp nut to connector body assembly, tighten clamp nut finger tight. Torque clamp nut, using BT-ST-751 torque wrench, to 43 inch-pounds.

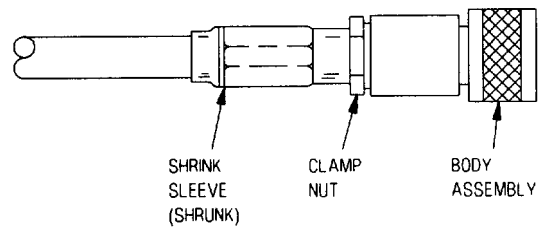
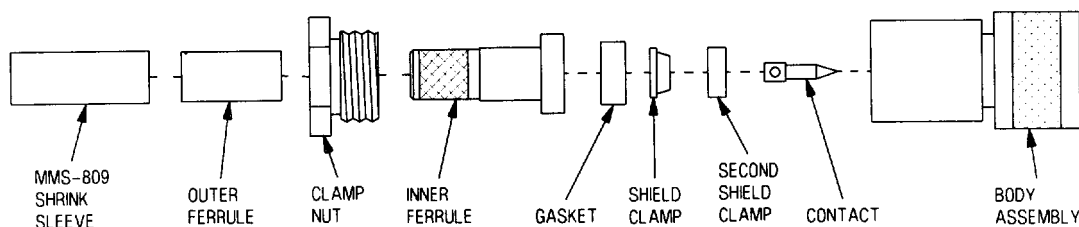


Figure 17. 82-5773, 82-5773-1, 82-5773-3 and 82-5773-5 Triaxial Connector Repair (Sheet 4)

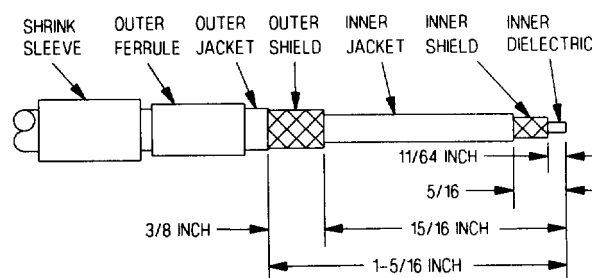
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1. Parts and assembly sequence.



2. Using 45-123 wire cutters, cut end of cable square. Cut a section of MMS-809 shrink sleeving approximately 3/8-inch longer than outer ferrule. Slide MMS-809 shrink sleeve and outer ferrule over cable. Adjust cable stripper 45-163 for cable with 3/8-inch between blades (see paragraph 5). Strip outer jacket 1-5/16 inch and outer shield 15/16-inch. Strip inner jacket 5/16-inch and inner dielectric 11/64-inch.



3. Flare outer shield. Place inner ferrule into clamp nut. Slide clamp nut/inner ferrule over inner jacket and under outer shield until the end of the ferrule is stopped by the cable jacket.

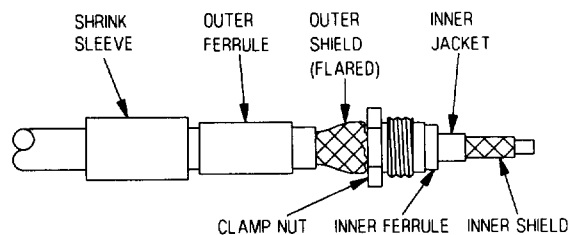
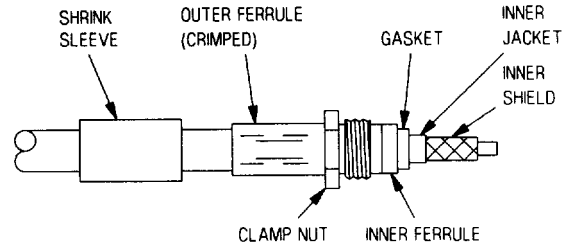
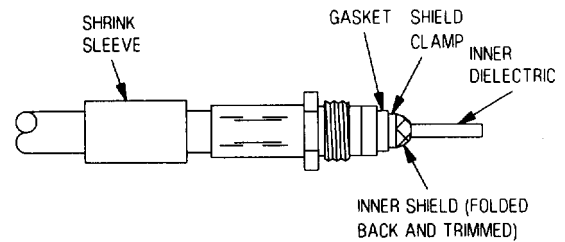


Figure 18. 82-5967, 82-5967-1, 82-5967-3 and 82-5967-5 Triaxial Connector Repair (Sheet 1)

4. Slide outer ferrule forward over shield and against back of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimp tool, crimp outer ferrule in the "A" cavity of die set. Slide crimp tool back toward the cable, rotate crimp tool 45 degrees, and double crimp ferrule in order to crimp down on as much jacket as possible to improve strain relief (see paragraph 14). Slide gasket over inner jacket and against inner ferrule.



5. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back, comb and trim inner shield even with edge of shield clamp.



6. Slide second shield clamp over inner dielectric, inner shield and against first shield clamp.



To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

7. Using a sharp knife, remove inner dielectric so that 3/32-inch of conductor is exposed. Using W60-3 soldering iron, tin center conductor (see paragraph 12).

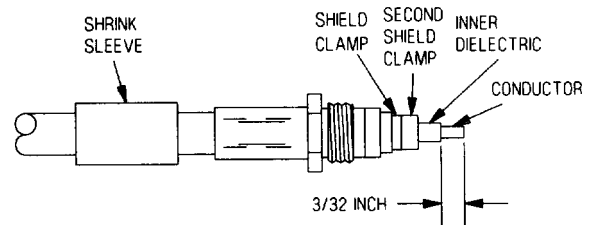
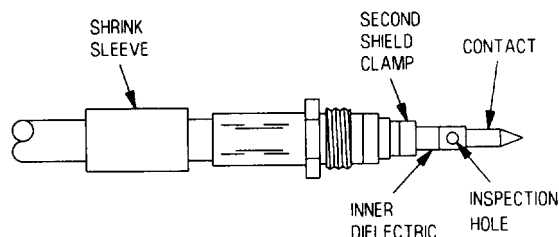


Figure 18. 82-5967, 82-5967-1, 82-5967-3 and 82-5967-5 Triaxial Connector Repair (Sheet 2)

NOTE

When soldering contact, conductor must be visible through inspection hole.

8. Using W60-3 soldering iron, solder contact to conductor. Conductor must be visible through inspection hole (see paragraph 13).



9. Slide shrink sleeve over outer ferrule until it butts against clamp nut.

WARNING

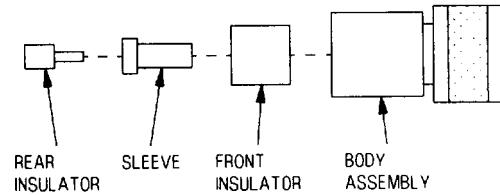
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10. Shrink sleeve using heat tool and nitrogen servicing unit.

Figure 18. 82-5967, 82-5967-1, 82-5967-3 and 82-5967-5 Triaxial Connector Repair (Sheet 3)

11. Slide front insulator, sleeve and rear insulator into connector body assembly if these pieces are not already assembled into body assembly connector.



CAUTION

Do not allow body assembly to rotate on cable while tightening clamp nut.

12. Slide body assembly over contact/cable assembly. While holding body assembly stationary, engage clamp nut to connector body assembly, tighten clamp nut finger tight. Torque clamp nut, using BT-ST-751 torque wrench, to 43 inch-pounds.

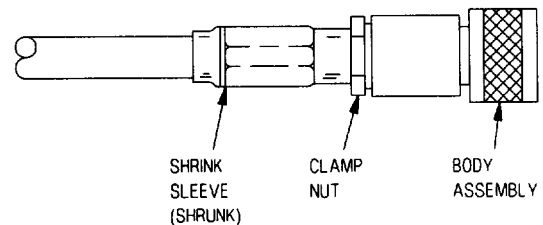


Figure 18. 82-5967, 82-5967-1, 82-5967-3 and 82-5967-5 Triaxial Connector Repair (Sheet 4)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M39012/XX-XXXX (MIL-C-39012) SC TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index		Materials Required	
Reference Designation	Figure No.	Specification or Part Number	Nomenclature
69P-R006	11	MS23053/5-XXX-0	Shrink Sleeve
76P-B011B	12		
76P-F012B	11		
76P-R013B	11		

1. DESCRIPTION.

2. These connectors are right angle, SC-type. They are not repairable.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

4. Refer to Reference Designation to Figure Number Index table for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 AND 45-164 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

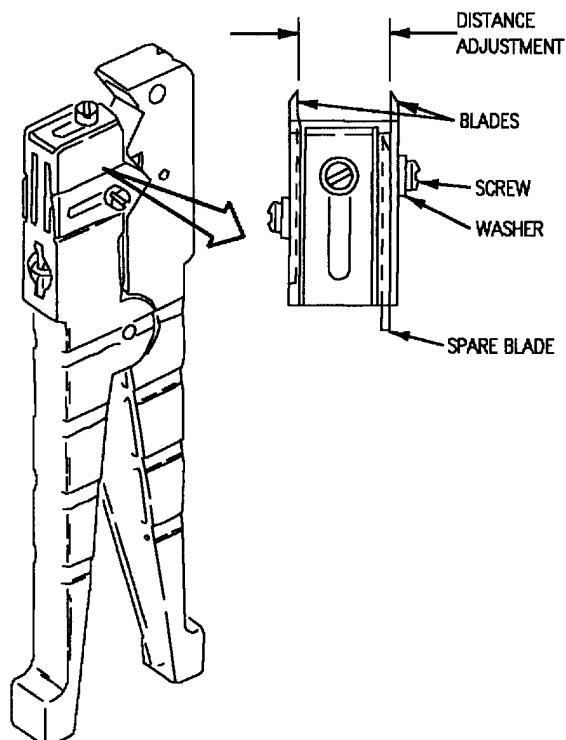
6. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 1.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades $\frac{3}{64}$ inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

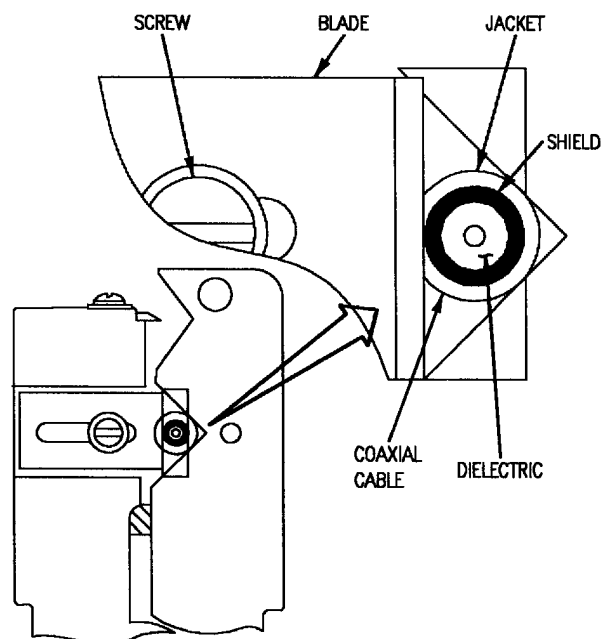
Figure 1. Distance Adjustment

7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 2.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



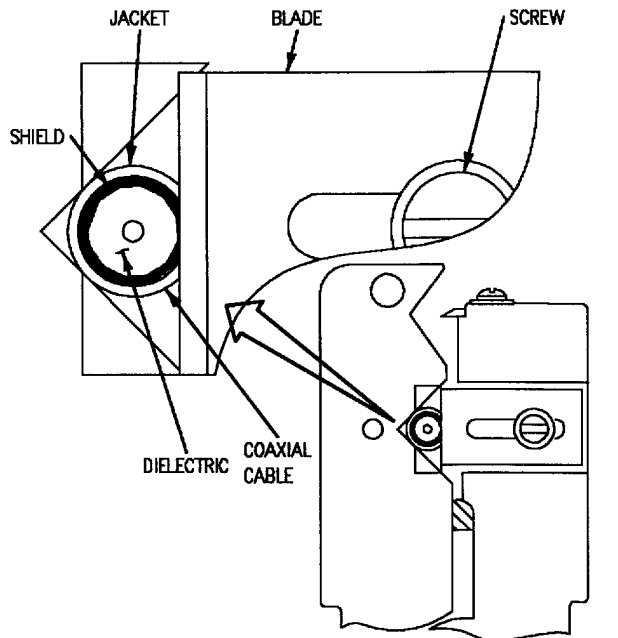
F/A-18-WRM-(409-3)01-CAT1

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CATI

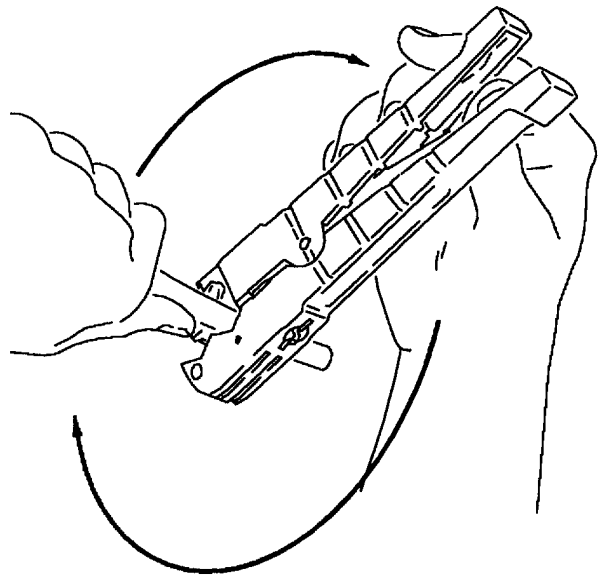
Figure 3. Shield Cut Adjustment**8. USE.**

a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation

c. Remove stripper from cable.

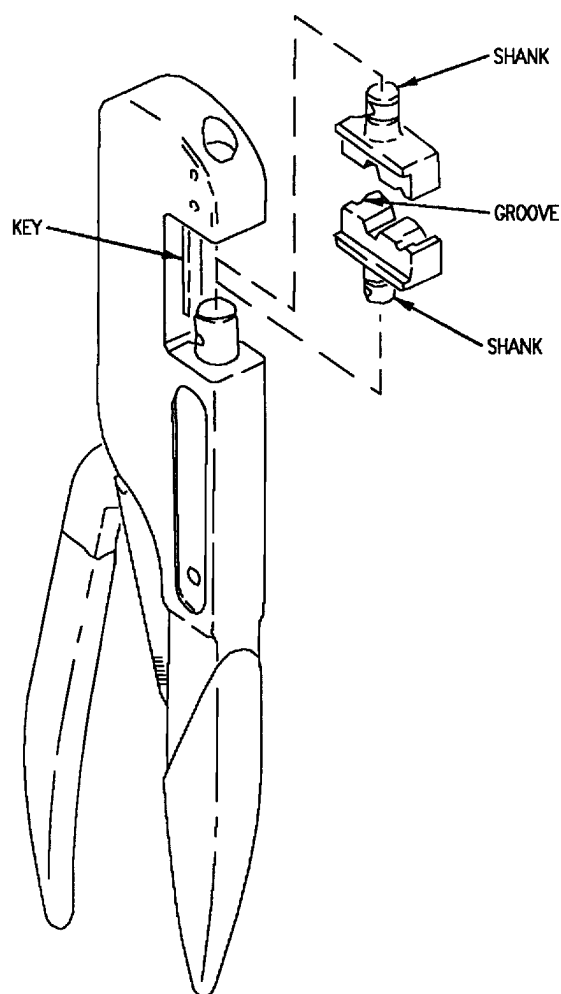
d. Remove stripped jacket and shield.

9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

10. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.

b. Close handle to make sure dies are seated and locked in place.



F/A-18-WRM-(410-2)01-SCAN

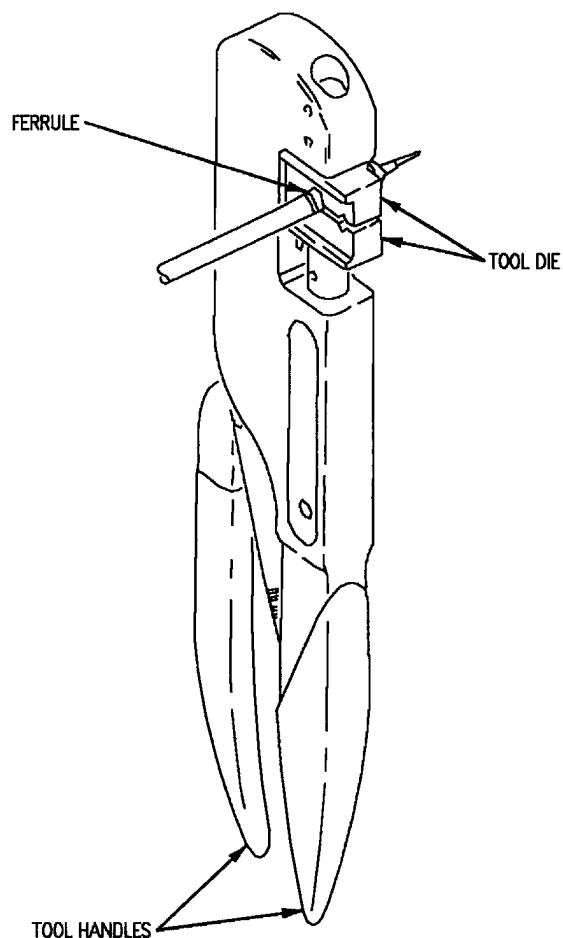
Figure 5. Die Installation

11. CRIMP PROCEDURE.

a. Position crimping material in correct cavity dies. See figure 6.

b. Squeeze tool handles until ratchet releases.

c. Open handles and remove terminal and wire assembly and inspect crimp.



F/A-18-WRM-(410-1)01-SCAN

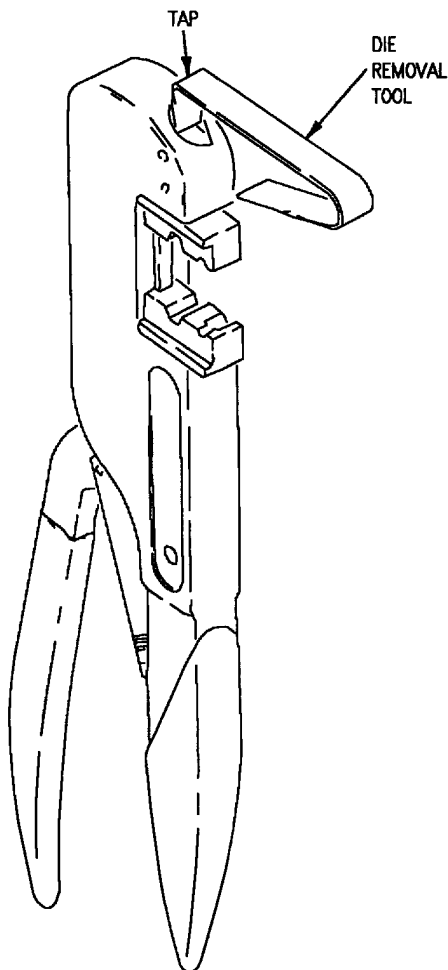
Figure 6. Crimping Operation

12. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

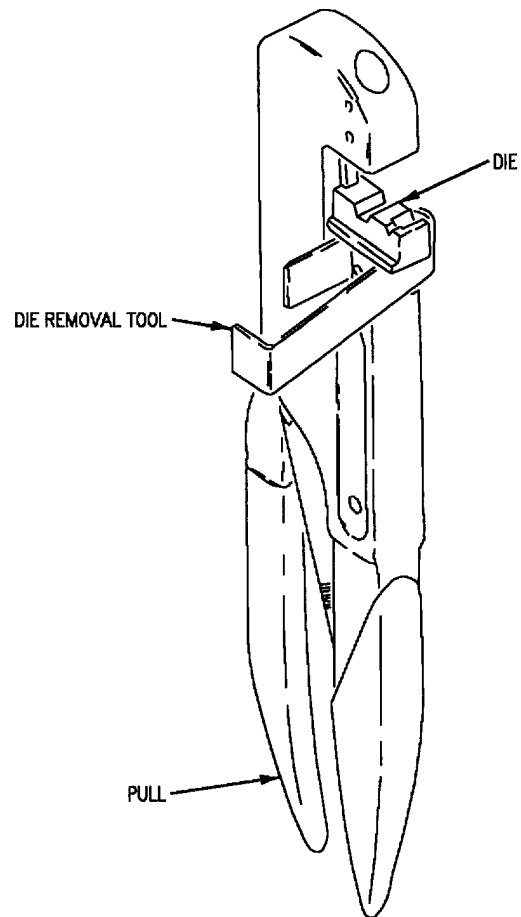


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

13. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY, ADJUSTMENTS, AND USE.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

14. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

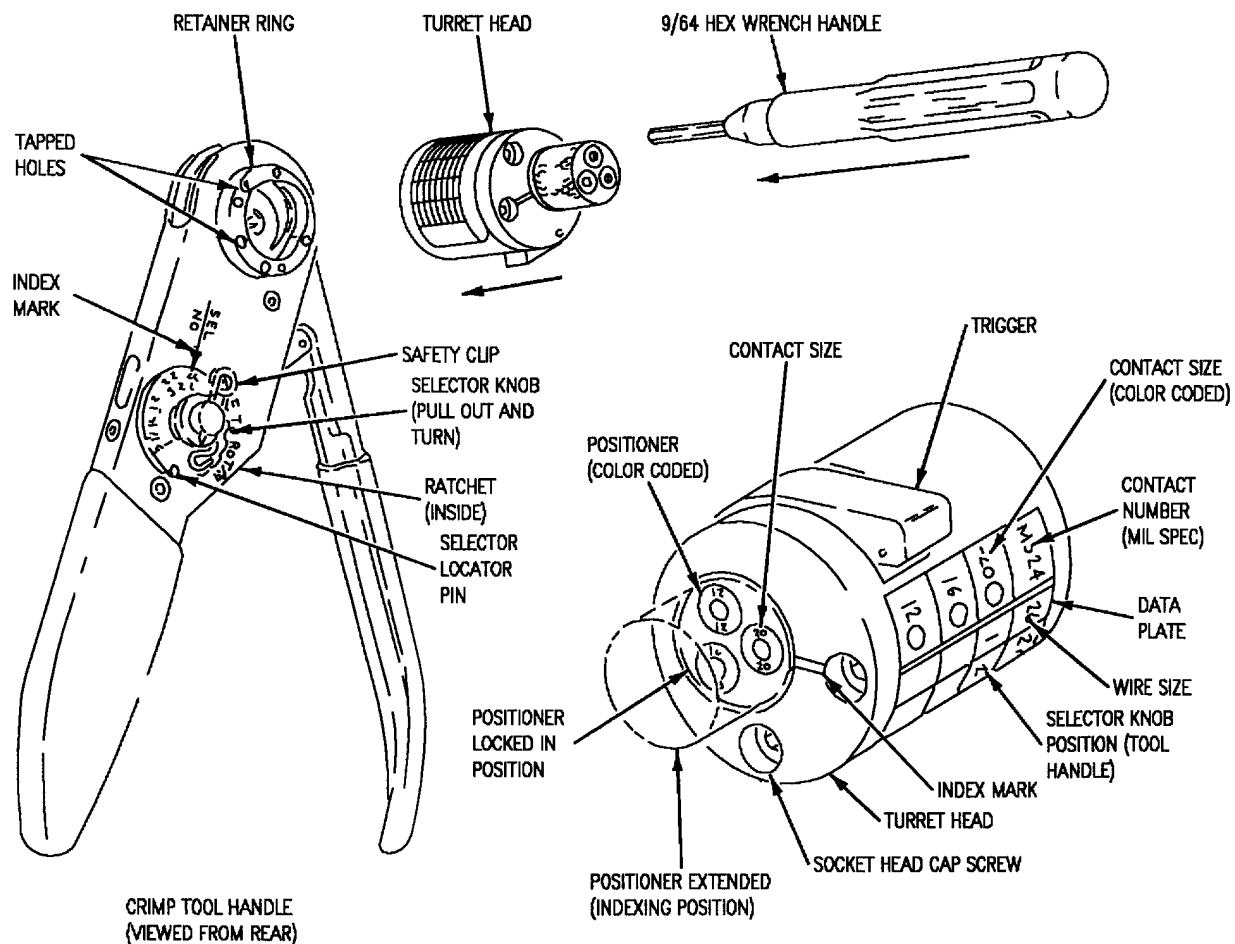
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector position.

a. Press trigger of turret head releasing positioner to extended (indexing) position. See figure 9.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64-inch hex wrench.

d. To remove, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 9. M22520/1-01 Crimp Tool Handle and Turret Head

15. ADJUSTING TURRET HEAD.

- a. Press trigger on turret head, releasing positioner to extended (indexing) position.
- b. Rotate positioners until color coded positioner is lined up with index mark.
- c. Press positioner into turret head until it snaps into locked position.

16. SETTING SELECTOR KNOB.

- a. Remove the safety clip lock from selector knob.
- b. Raise selector knob and rotate to selector number found on data plate.
- c. Replace safety clip.

17. CONTACT CRIMPING.

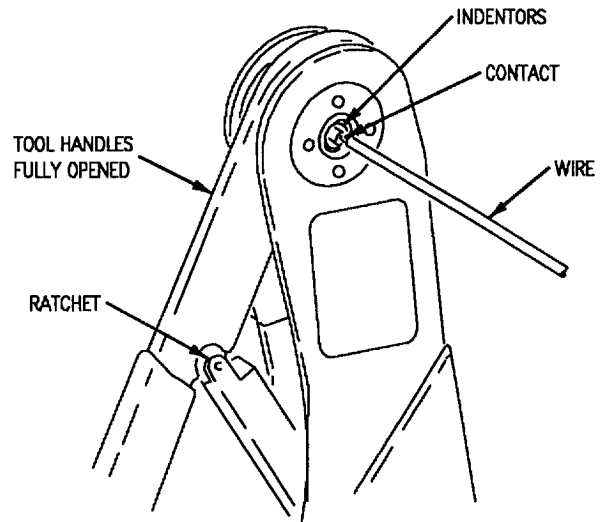
- a. Insert contact and coax into crimp tool indentors on front of tool until contact bottoms in positioner/turret. (See figure 10, detail A).

NOTE

Crimp tool will not release until crimping cycle is completed.

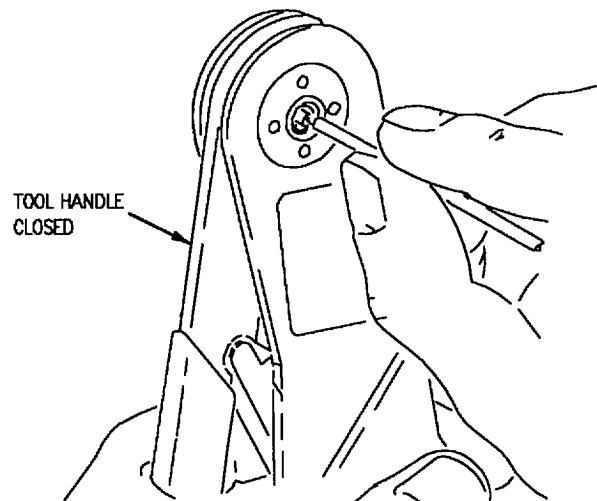
- b. Hold coax in place and squeeze tool handles together smoothly until ratchet releases and tool opens. (See figure 10, detail B).

- c. Remove crimped contact from tool and inspect crimp.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A



DETAIL B

F/A-18-WRM-(407-1)01-SCAN

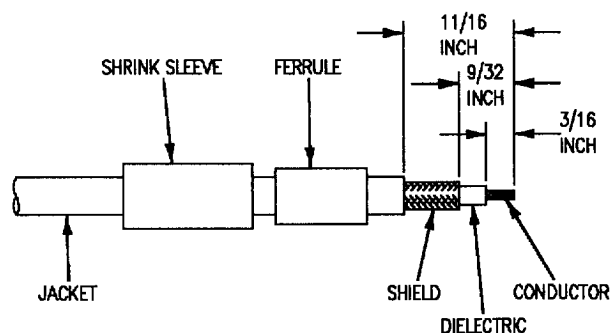
Figure 10. Contact Crimping



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

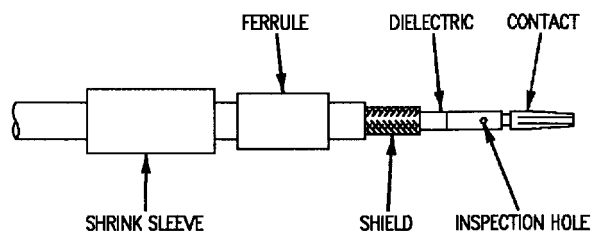
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-164 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife remove 3/16-inch of dielectric.



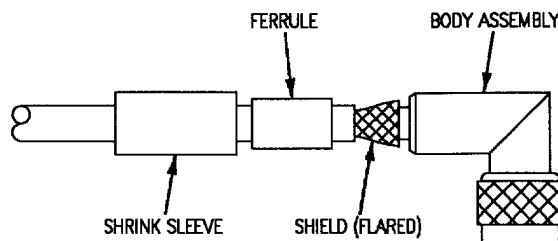
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using turret head M22520/1-13 adjusted to the blue position and M22520/1-01 crimping tool frame, crimp contact with selector knob set to "8" (see paragraph 13).



F/A-18-WRM-(245-1)02-CATI

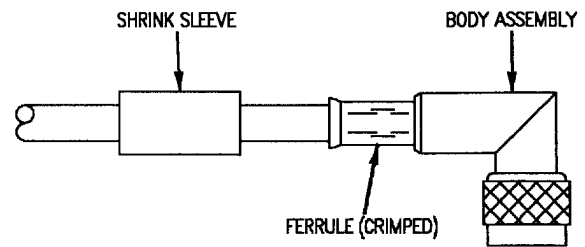
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(248-2)02-CATI

Figure 11. M39012/39-0501 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-25 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(246-3)02-CAT1

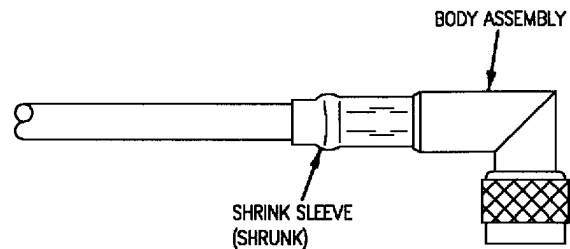
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(246-4)02-CAT1

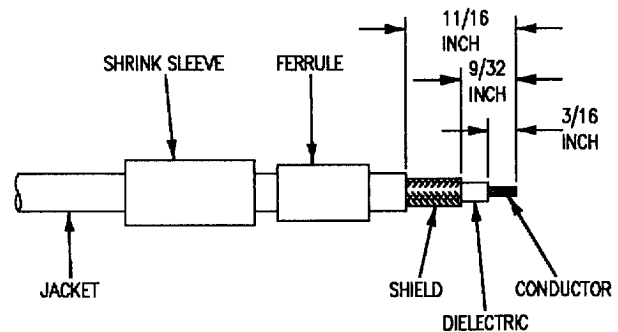
Figure 11. M39012/39-0501 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

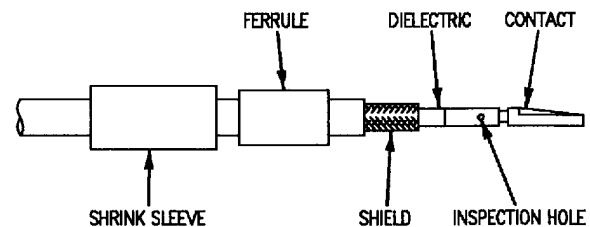
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 13/32-inch between blades (see paragraph 5). Strip cable jacket 11/16-inch and shield 9/32-inch. Using sharp knife remove 3/16-inch of dielectric.



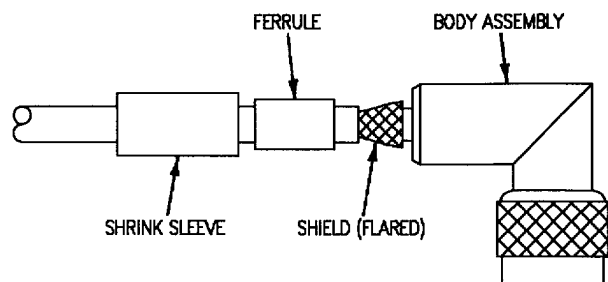
F/A-18-WRM-(148-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using turret heat M22520/1-13 adjusted to the blue position and the M22520/1-01 crimping tool frame with selector knob set to "7", crimp contact (see paragraph 13).



F/A-18-WRM-(153-1)02-CATI

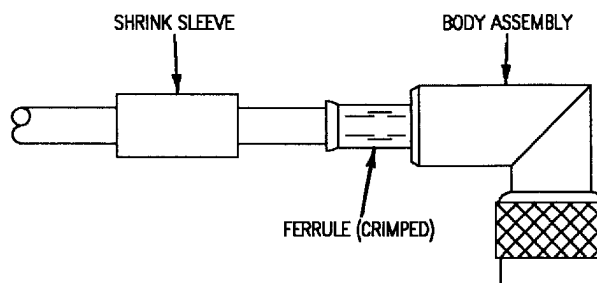
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(247-1)02-CATI

Figure 12. M39012/39-0503 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-05 die set and M22520/5-01 crimping tool frame, crimp ferrule in “A” cavity of die set (see paragraph 9).



F/A-18-WRM-(247-2)02-CAT1

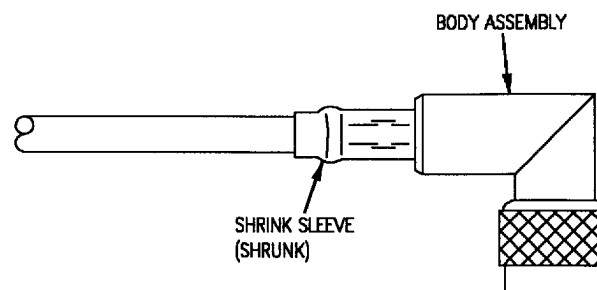
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(247-3)02-CAT1

Figure 12. M39012/39-0503 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M39012/XX-XXXX (MIL-C-39012) SMA TYPE COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A-F18AC-WRM-000
Stripping Tools	WP010 00

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M39012/55-4502 Coaxial Connector Repair, Figure 16	12
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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

Reference Designation	Figure No.
67P-T001E	18
74P-B001B	17
74P-B001C	17
74P-F002D	16
74P-F002F	16

Materials Required

Specification or Part Number	Nomenclature
---------------------------------	--------------

MS23053/5-XXX-0

Shrink Sleeve

3. PROCEDURE.



1. DESCRIPTION.

2. These connectors are SMA type and are not repairable.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

4. Refer to Reference Designation to Figure Number Index table for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

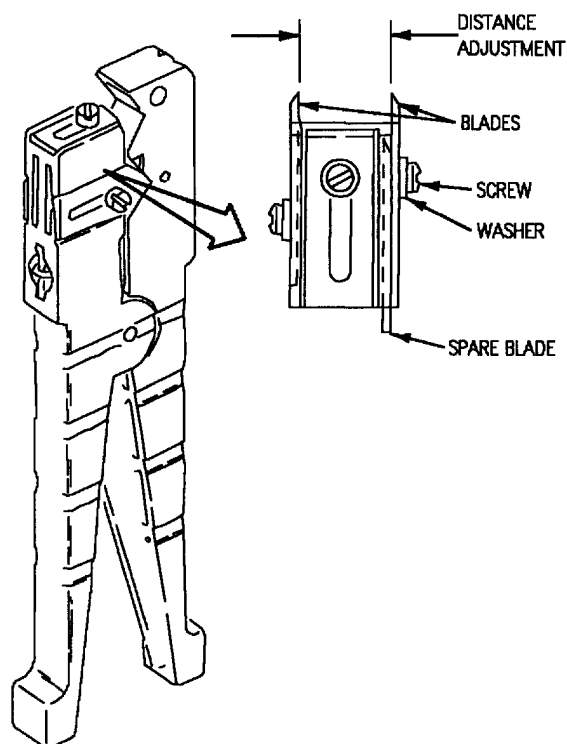
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades $\frac{3}{64}$ -inch.

- c. Install screws and tighten finger tight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

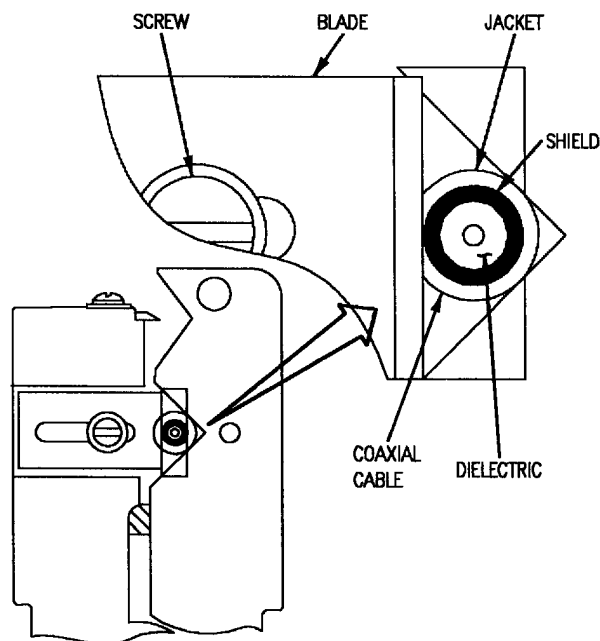
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



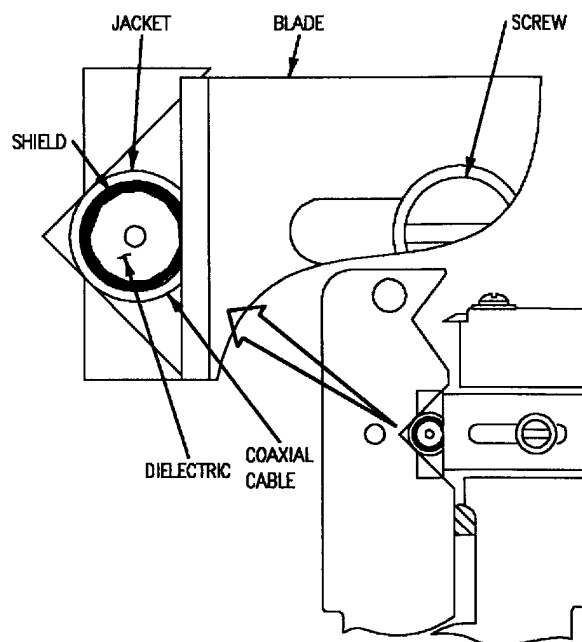
F/A-18-WRM-(409-3)01-CATI

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CATI

Figure 3. Shield Cut Adjustment

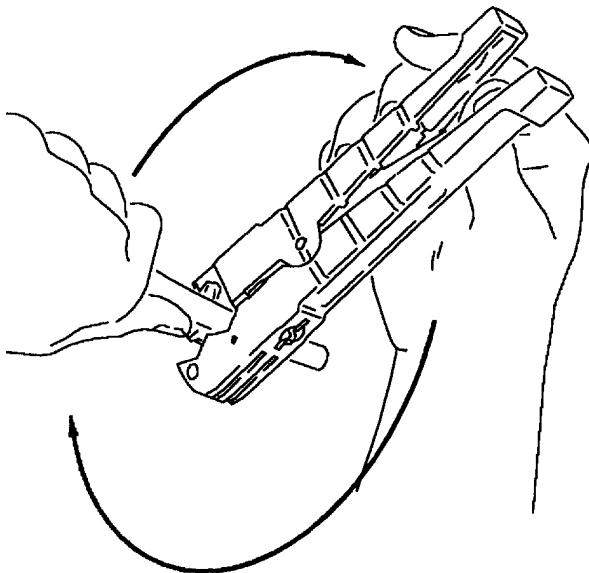
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



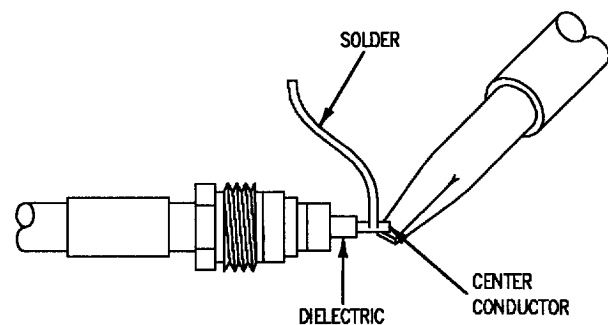
F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. SOLDERING.**

10. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

11. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat until solder flows into conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 5.

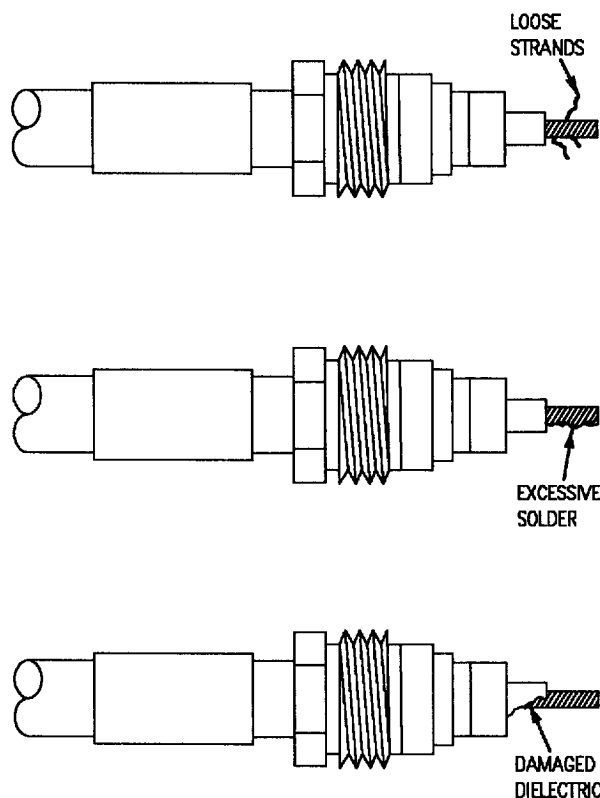


F/A-18-WRM-(572-1)01-CATI

Figure 5. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 6.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.



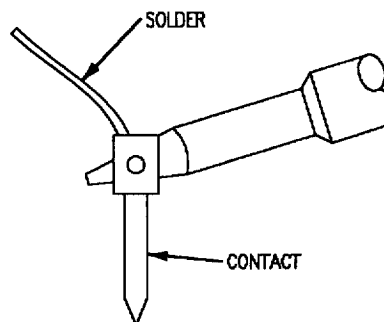
F/A-18-WRM-(573-1)01-CATI

Figure 6. Unacceptable Conditions After Tinning

12. SOLDERING CONTACT TO CENTER CONDUCTOR.

- a. Clean and tin soldering iron.

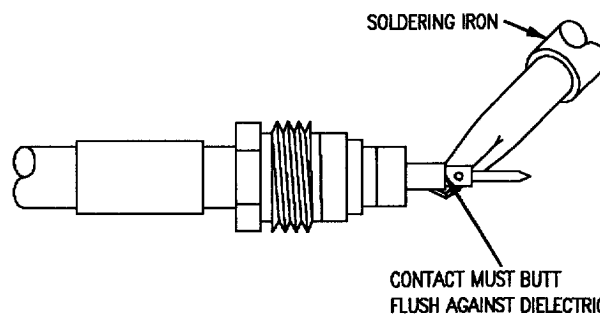
b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 7.



F/A-18-WRM-(574-1)01-CATI

Figure 7. Filling Solder Cup

c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 8.

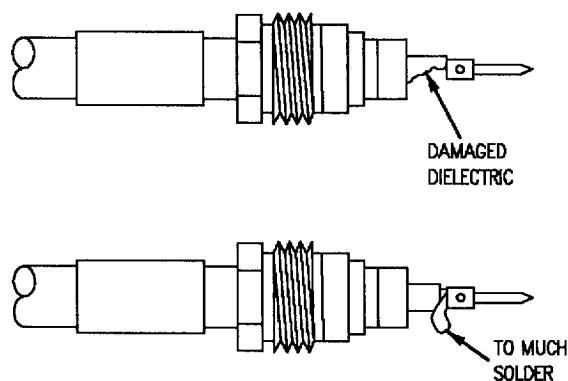


F/A-18-WRM-(575-1)01-CATI

Figure 8. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. See figure 9. The below conditions are unacceptable:

- (1) Damaged dielectric.
- (2) Too much solder.



F/A-18-WRM-(576-1)01-CATI

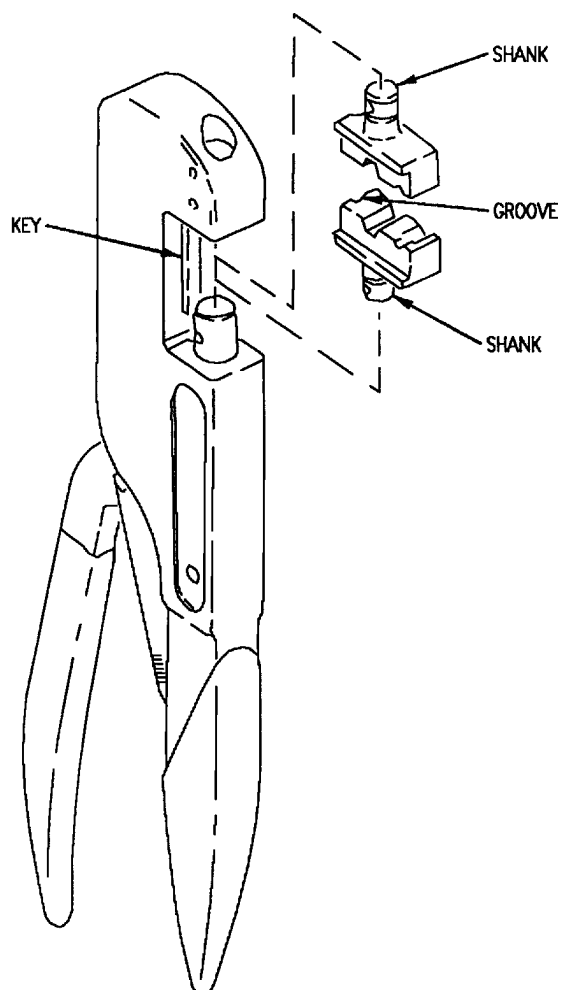
Figure 9. Unacceptable Conditions After Soldering Contact

13. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

14. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 10.

b. Close handle to make sure dies are seated and locked in place.

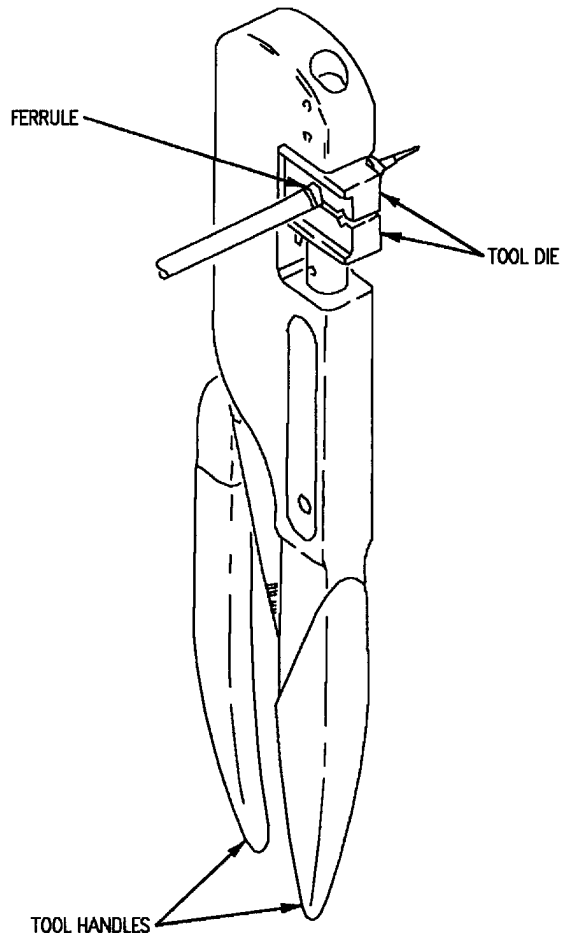


F/A-18-WRM-(410-2)01-SCAN

Figure 10. Die Installation

15. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 11.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

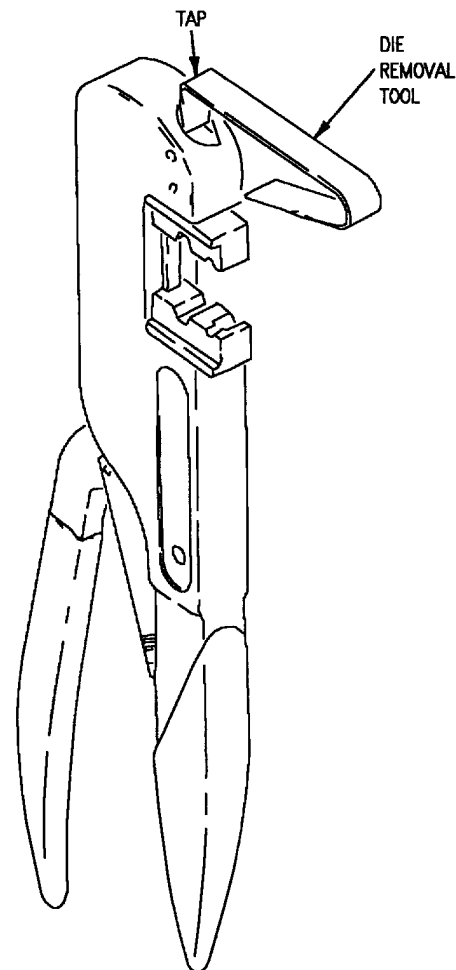


F/A-18-WRM-(410-1)01-SCAN

Figure 11. Crimping Operation**16. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 12.



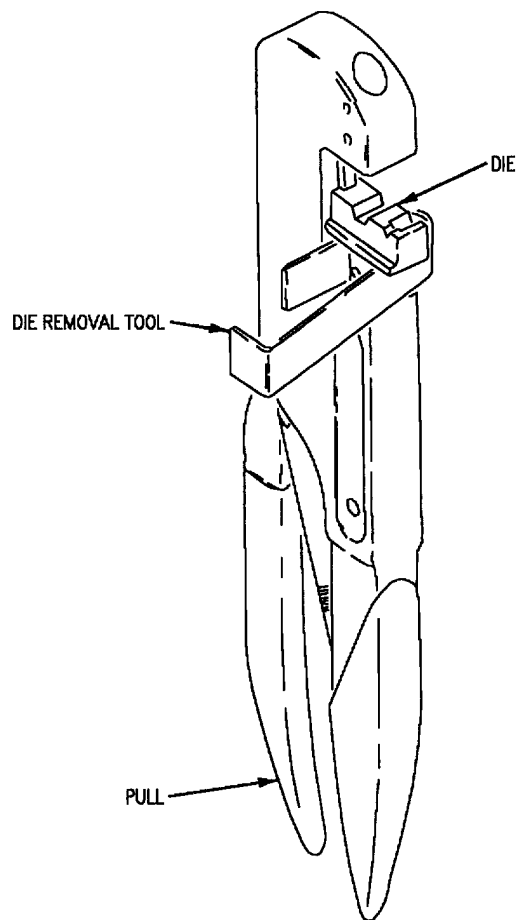
F/A-18-WRM-(410-3)01-SCAN

Figure 12. Upper Die Removal

- b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See Figure 13.

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.



F/A-18-WRM-(410-4)01-SCAN

Figure 13. Lower Die Removal

7. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY, ADJUSTMENTS, AND USE.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

18. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

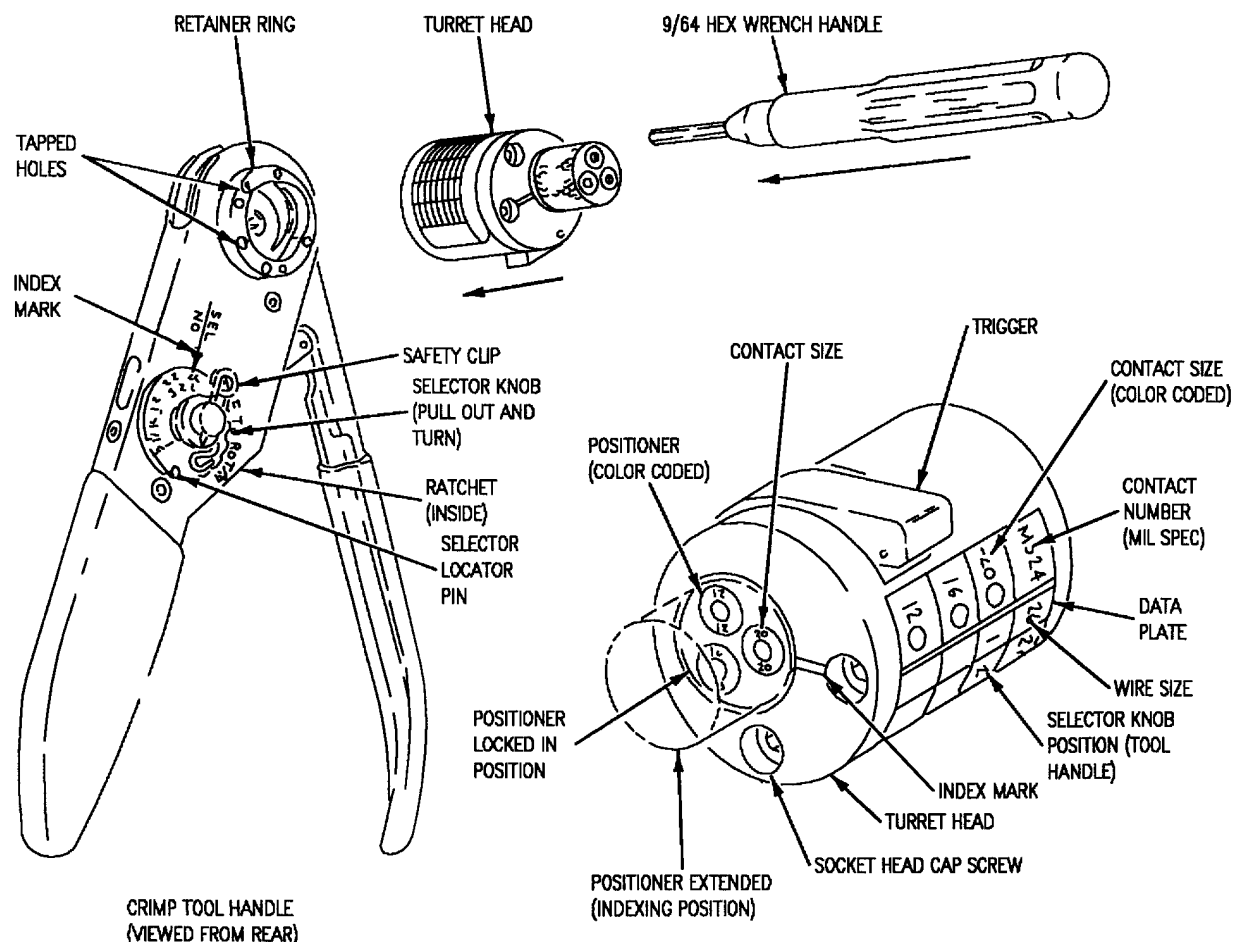
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector position.

a. Press trigger of turret head releasing positioner to extended (indexing) position. See figure 14.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64-inch hex wrench.

d. To remove, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 14. M22520/1-01 Crimp Tool Handle and Turret Head

19. ADJUSTING TURRET HEAD.

- a. Press trigger on turret head, releasing positioner to extended (indexing) position.
- b. Rotate positioners until color coded positioner is lined up with index mark.
- c. Press positioner into turret head until it snaps into locked position.

20. SETTING SELECTOR KNOB.

- a. Remove the safety clip lock from selector knob.
- b. Raise selector knob and rotate to selector number found on data plate.
- c. Replace safety clip.

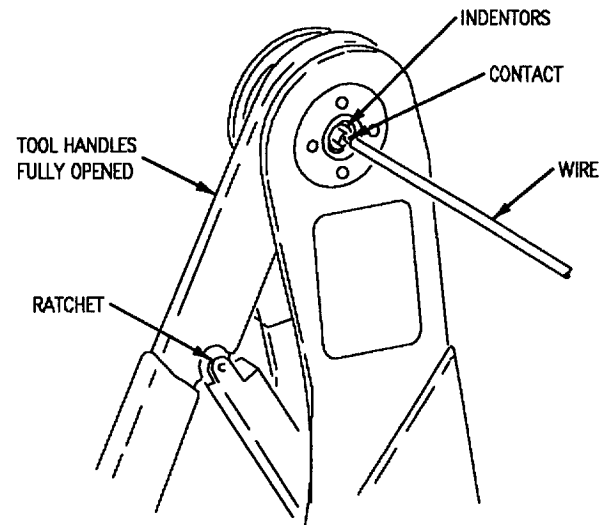
21. CONTACT CRIMPING.

- a. Insert contact and coax into crimp tool indentors on front of tool until contact bottoms in positioner/turret. (See figure 15, detail A).

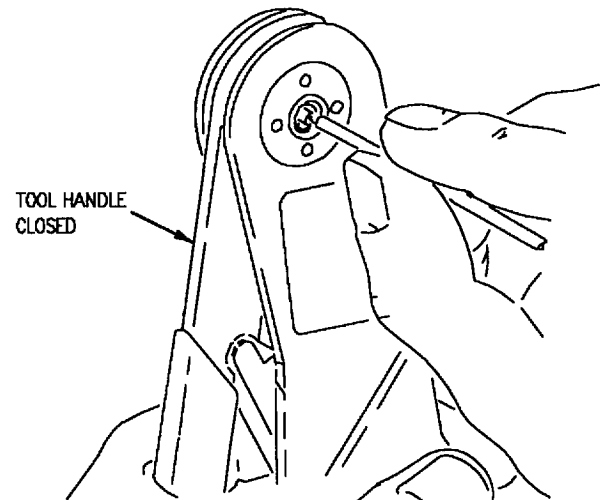
NOTE

Crimp tool will not release until crimping cycle is completed.

- b. Hold coax in place and squeeze tool handles together smoothly until ratchet releases and tool opens. (See figure 15, detail B).



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A**DETAIL B**

F/A-18-WRM-(407-1)01-SCAN

Figure 15. Contact Crimping

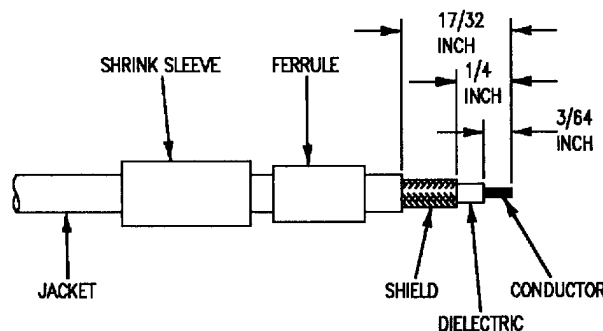
- c. Remove crimped contact from tool and inspect for correct crimp.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

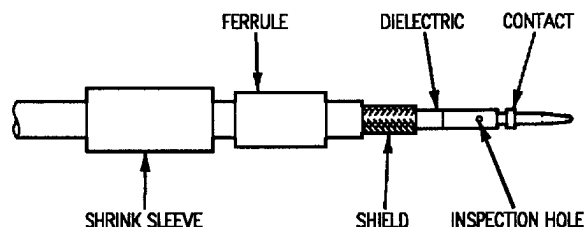
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip cable jacket 17/32-inch and shield 1/4-inch. Using sharp knife, remove 9/64-inch of dielectric.



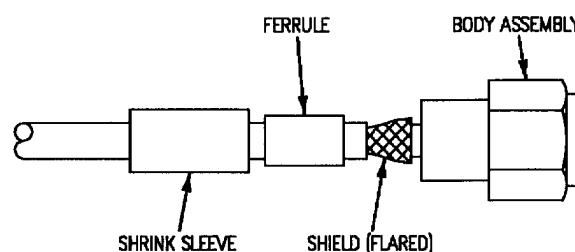
F/A-18-WRM-(244-1)02-CAT1

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using turret head M22520/1-15 and the M22520/1-01 crimping tool frame with selector knob set to "3", crimp contact (see paragraph 17).



F/A-18-WRM-(320-1)01-CAT1

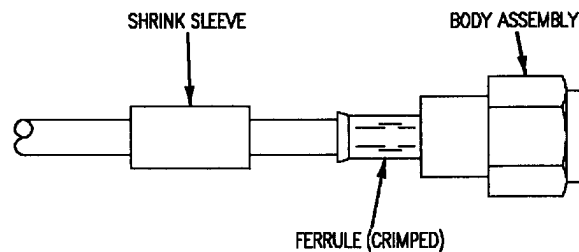
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(224-2)02-CAT1

Figure 16. M39012/55-4502 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in “B” cavity of die set (see paragraph 13).



F/A-18-WRM-(224-3)02-CATI

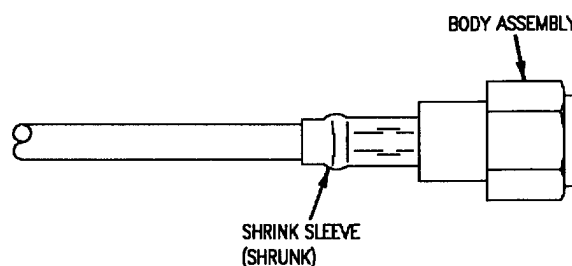
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, convention hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(224-4)02-CATI

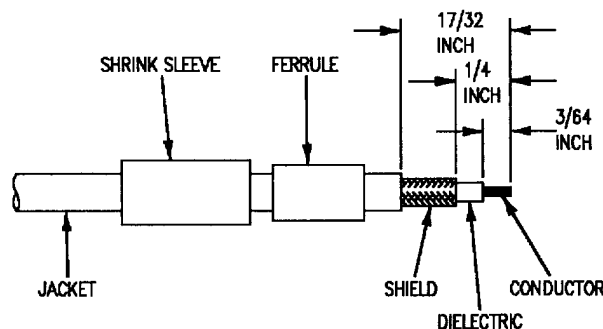
Figure 16. M39012/55-4502 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18Ac-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

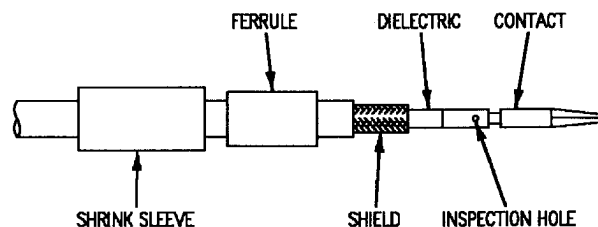
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip cable jacket 17/32-inch and shield 1/4-inch. Using sharp knife, remove 9/64-inch of dielectric.



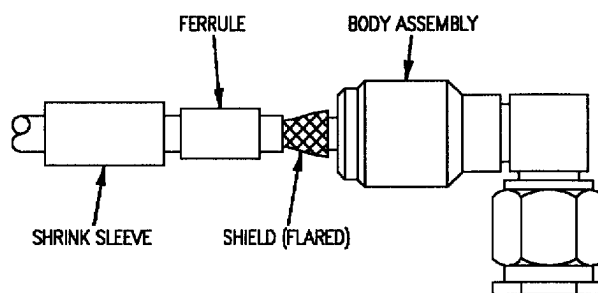
F/A-18-WRM-(224-1)02-CAT I

2. Slide contact over center conductor until it butts against dielectric. Center conductor must be visible through inspection hole in contact. Using turret head M22520/1-15 and the M22520/1-01 crimping tool frame with selector knob set to "3", crimp contact (see paragraph 17).



F/A-18-WRM-(245-1)02-CAT I

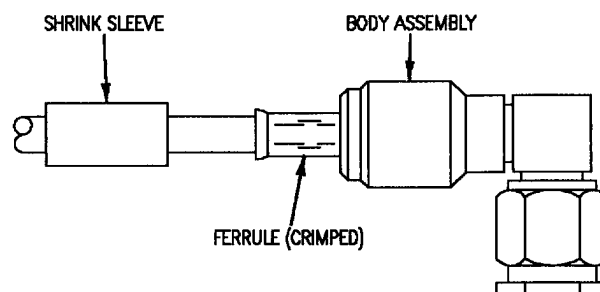
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(245-2)02-CAT I

Figure 17. M39012/56-4502 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in “B” cavity of die set (see paragraph 13).



F/A-18-WRM-(245-3)02-CATI

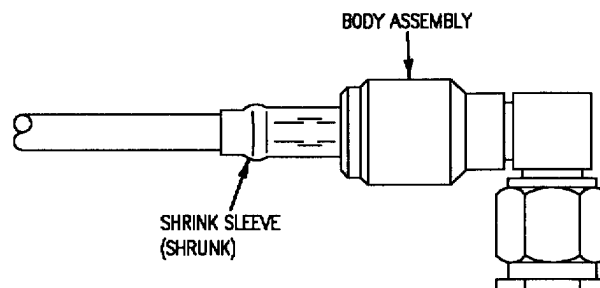
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(245-4)02-CATI

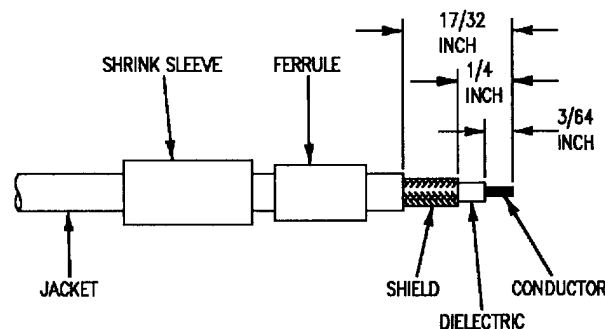
Figure 17. M39012/56-4502 Coaxial Connector Repair (Sheet 2)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

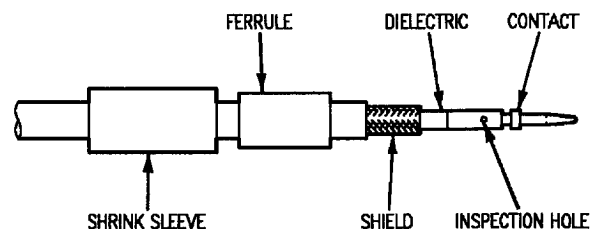
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip cable jacket 17/32-inch and shield 1/4-inch. Using sharp knife, remove 9/64-inch of dielectric. Tin center conductor using W60-3 soldering iron (see paragraph 11).



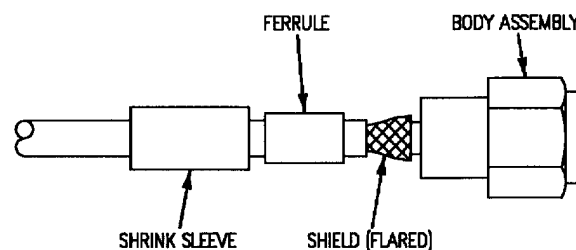
F/A-18-WRM-(244-1)02-CATI

2. Slide contact over center conductor until it butts against dielectric. Solder contact to conductor using W60-3 soldering iron (see paragraph 12).



F/A-18-WRM-(320-1)01-CATI

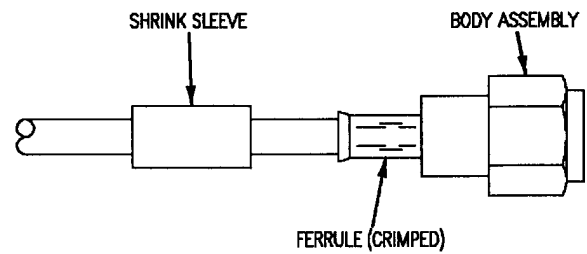
3. Flare shield. Slide body assembly over contact and under shield until it seats. A snap will be felt when contact is fully seated. The body assembly must butt against the dielectric. Pull lightly on cable to make sure body assembly is fully seated.



F/A-18-WRM-(244-2)02-CATI

Figure 18. M39012/55-4026 Coaxial Connector Repair (Sheet 1)

4. Slide ferrule over shield until it butts against body assembly. Using M22520/5-35 die set and M22520/5-01 crimping tool frame, crimp ferrule in “B” cavity of die set (see paragraph 13).



F/A-18-WRM-(244-3)02-CATI

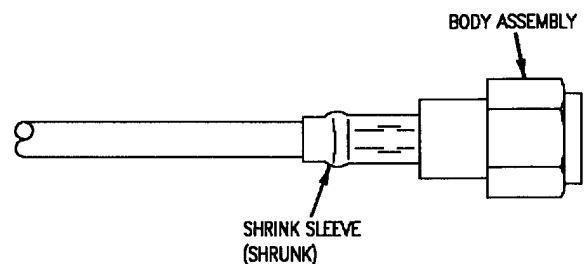
5. Slide shrink sleeve over ferrule until it butts against body assembly.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

6. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(244-4)02-CATI

Figure 18. M39012/55-4026 Coaxial Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS DATA

M25516/XX-XX-XX (MIL-C-25516) COAX CONNECTOR REPAIR

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Use	3
Description	2
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Jacket Cut Adjustment, Figure 1	3
Materials Required	2
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M25516/20-02-04, M25516/20-03-04, and M25516/20-10-04 Coax Connector Repair, Figure 8	6
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Tinning Center Conductor, Figure 3	4
Unacceptable Conditions After Soldering Contact, Figure 7	5
Unacceptable Conditions After Tinning, Figure 4	4

Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index

Reference Designation	Figure No.
15J-K006	10
15J-K007	10
15P-E003A	8
15P-E003B	8
66J-C004	9
72J-B009	9

1. DESCRIPTION.

2. The M25516 coax connectors are used in fuel gaging systems and therefore require careful assembly to assure complete liquid tight sealing and continuity.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 ADJUSTMENT AND USE.

NOTE

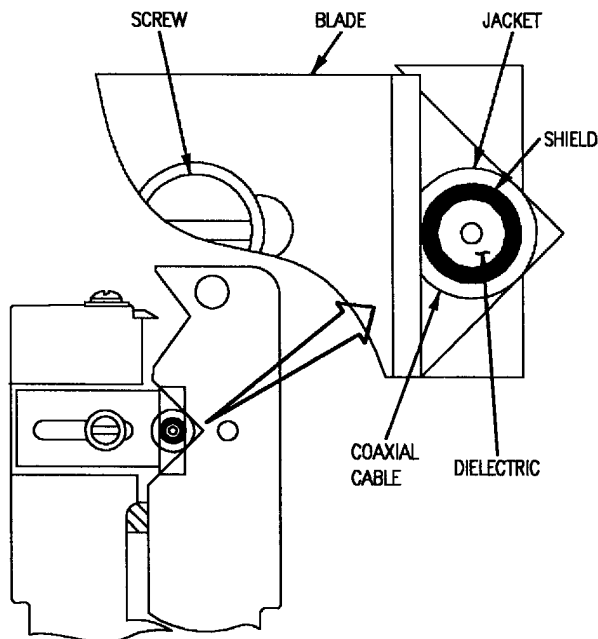
For detailed operation of coaxial wire strippers see WP010 00.

6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 1.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CATI

Figure 1. Jacket Cut Adjustment

- Adjust other blade so blade does not touch cable.
- If necessary, repeat steps 6a through 6c until blade cuts through jacket without damaging shield.

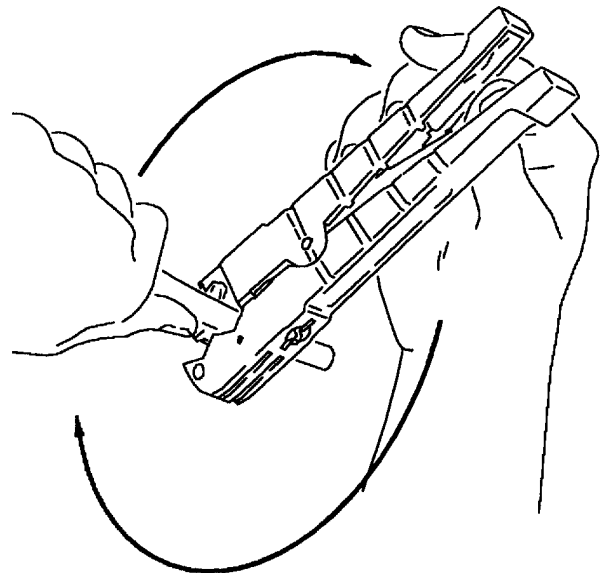
7. USE.

- Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- Remove stripper from cable.
- Remove stripped jacket.



F/A-18-WRM-(409-1)01-SCAN

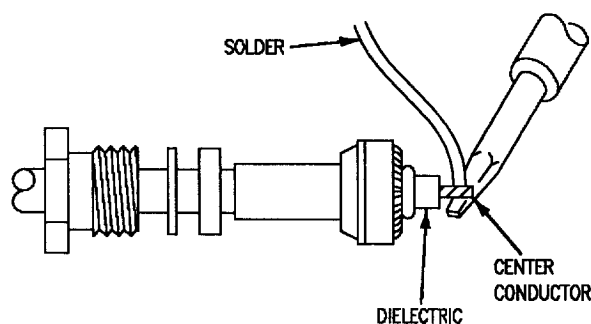
Figure 2. Operation

8. SOLDERING.

9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

- a. Clean and tin soldering iron.
- b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.
- c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.

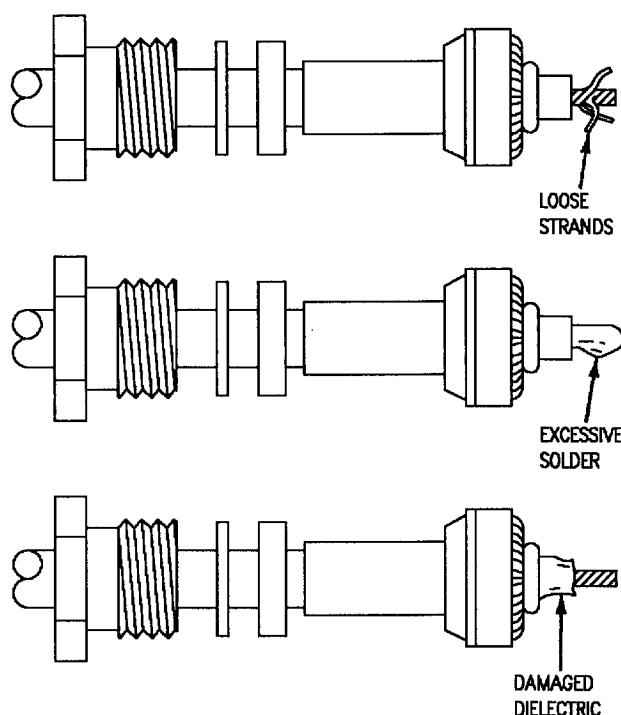


F/A-18-WRM-(880-1)02-CATI

Figure 3. Thinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

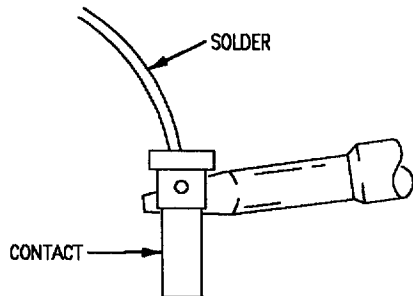


F/A-18-WRM-(880-2)02-CATI

Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR.

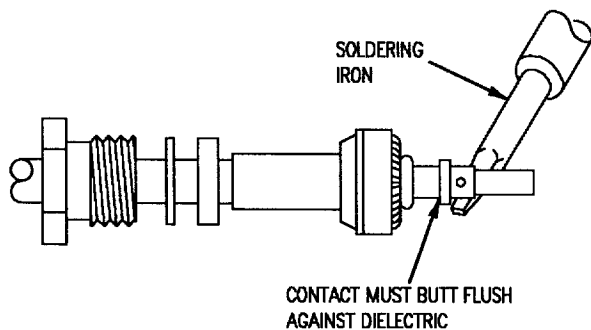
- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup half full with solder. Avoid getting solder on outside of contact. See figure 5.



F/A-18-WRM-(880-3)02-CATI

Figure 5. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 6.



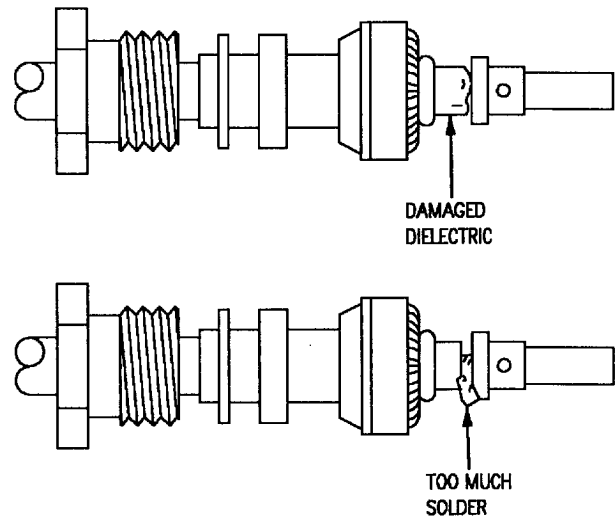
F/A-18-WRM-(880-4)02-CATI

Figure 6. Soldering Contact to Center Conductor

- d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 7.

(1) Damaged dielectric.

(2) Too much solder.



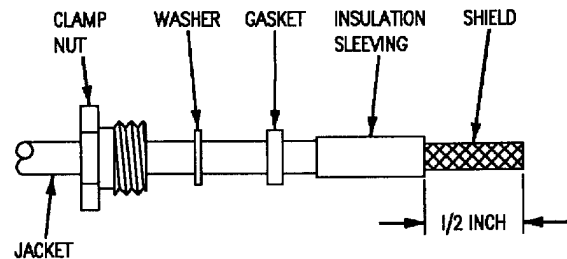
F/A-18-WRM-(880-5)02-CATI

Figure 7. Unacceptable Conditions After Soldering Contact



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, gasket and insulation sleeving over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-163 adjusted for cable, remove 1/2-inch of jacket. See paragraph 5.



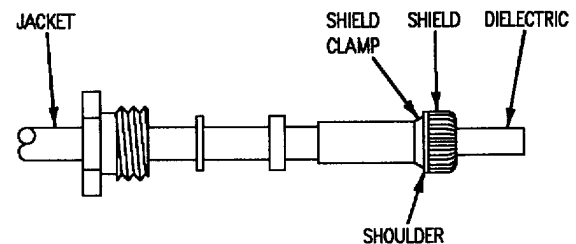
F/A-18-WRM-(317-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

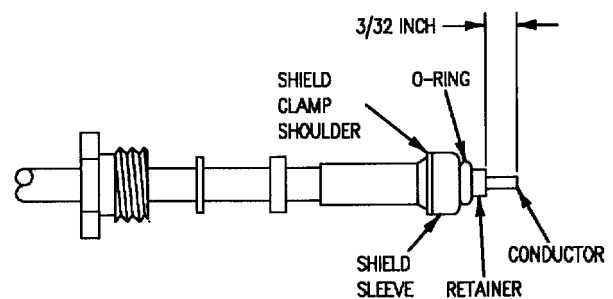
Shield strands must be smoothly and evenly distributed around face of shield clamp.

3. Comb and flare out shield. Fold shield over shield clamp and trim even with shoulder of shield clamp.



F/A-18-WRM-(317-2)02-CATI

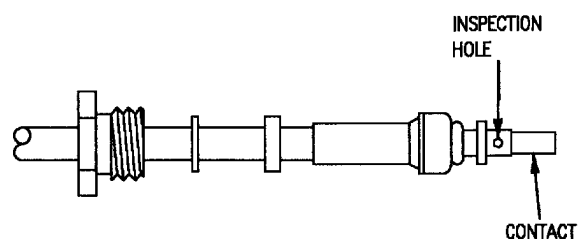
4. Slide shield sleeve over shield and against shoulder of shield clamp. Slide O-ring and retainer over dielectric. Using sharp knife, trim dielectric flush with retainer. Cut conductor 3/32-inch beyond retainer.



F/A-18-WRM-(317-3)02-CATI

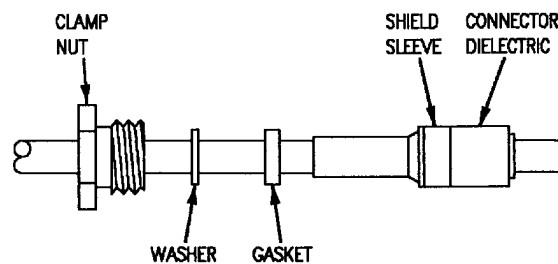
**Figure 8. M25516/20-02-04, M25516/20-02-04 and M25516/20-10-04
Coax Connector Repair (Sheet 1)**

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(317-4)02-CATI

6. Slide connector dielectric over contact and against shield sleeve.



F/A-18-WRM-(317-5)02-CATI

**Figure 8. M25516/20-02-04, M25516/20-03-04 and M25516/20-10-04
Coax Connector Repair (Sheet 2)**

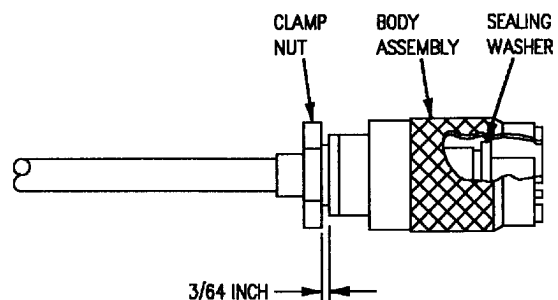
7. Slide body assembly over connector dielectric until it stops. Slide gasket, washer, and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

8. While supporting body assembly, torque clamp nut, using BT-ST-751 Torque Wrench, to 4 to 6 inch-pounds.

9. From front of body assembly, slide sealing washer over connector dielectric until it stops.



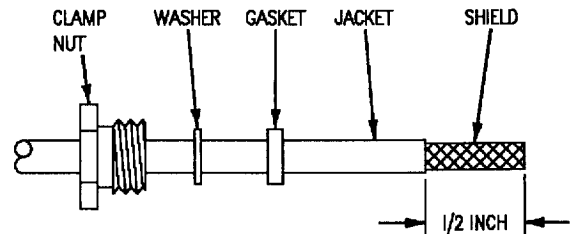
F/A-18-WRM-(317-6)02-CATI

**Figure 8. M25516/20-02-04, M25516/20-03-04 and M25516/20-10-04
Coax Connector Repair (Sheet 3)**



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-163 adjusted for cable, remove 1/2-inch of jacket. See paragraph 5.



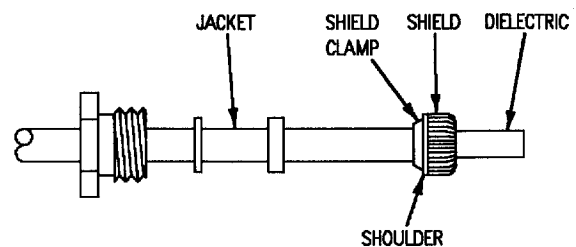
F/A-18-WRM-(318-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield strands must be smoothly and evenly distributed around face of shield clamp.

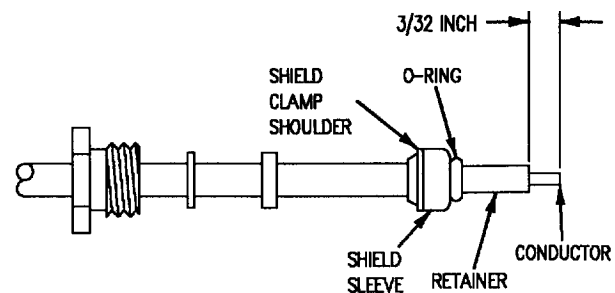
3. Comb and flare out shield. Fold shield over shield clamp and trim even with shoulder of shield clamp.



F/A-18-WRM-(318-2)02-CATI

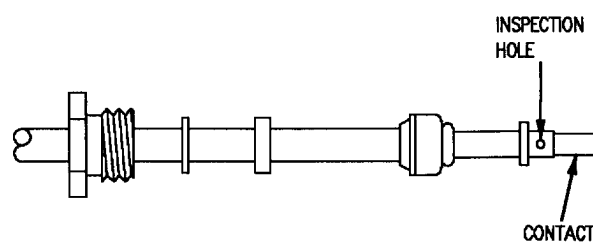
Figure 9. M25516/19-04-14 Coax Connector Repair (Sheet 1)

4. Slide shield sleeve over shield and against shoulder of shield clamp. Slide O-ring and retainer over dielectric. Using sharp knife, trim dielectric flush with retainer. Cut conductor 3/32-inch beyond retainer.



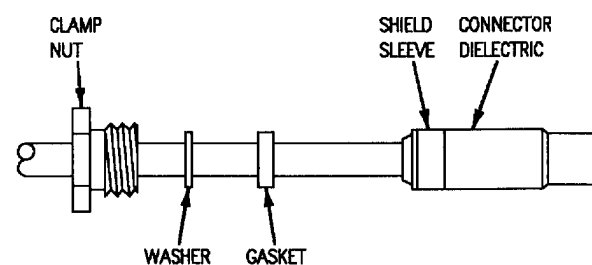
F/A-18-WRM-(318-3)02-CATI

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(318-4)02-CATI

6. Slide connector dielectric over contact and against shield sleeve.



F/A-18-WRM-(318-5)02-CATI

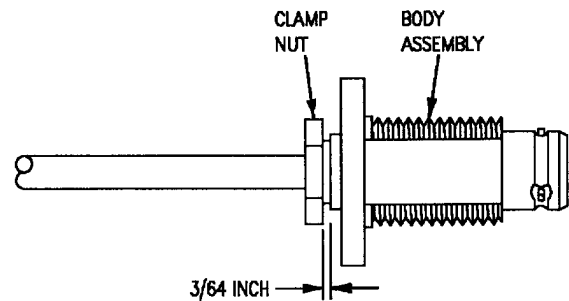
Figure 9. M25516/19-04-14 Coax Connector Repair (Sheet 2)

7. Slide body assembly over connector dielectric until it stops. Slide gasket, washer, and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

8. While supporting body assembly, screw clamp nut into body assembly. Using torque wrench, torque clamp nut to 4 to 6 inch-pounds.



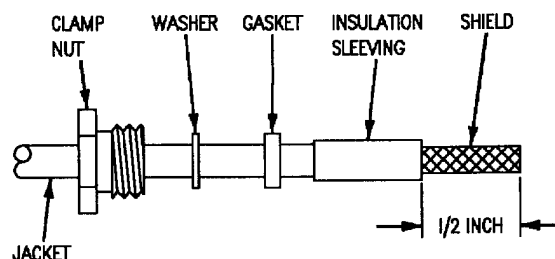
F/A-18-WRM-(318-6)02-CATI

Figure 9. M25516/19-04-14 Coax Connector Repair (Sheet 3)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide clamp nut, washer, gasket and insulation sleeving over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-163 adjusted for cable, remove 1/2-inch of jacket. See paragraph 5.



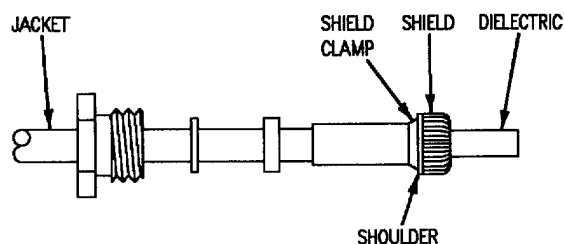
F/A-18-WRM-(317-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield strands must be smoothly and evenly distributed around face of shield clamp.

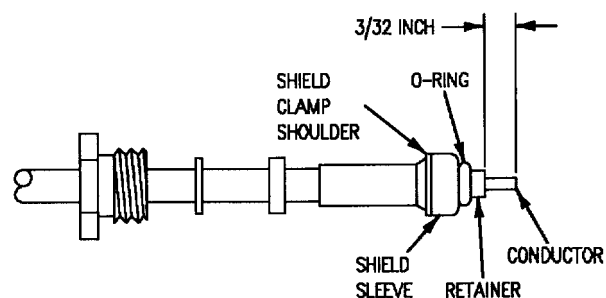
3. Comb and flare out shield. Fold shield over shield clamp and trim even with shoulder of shield clamp.



F/A-18-WRM-(317-2)02-CATI

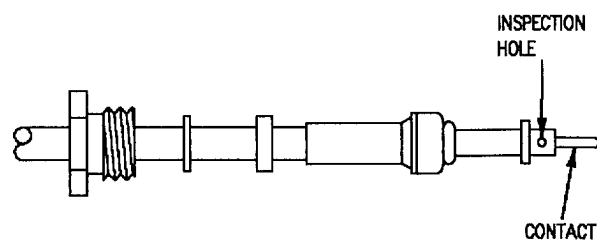
**Figure 10. M25516-19-02-04, M25516-19-03-04 and M25516-19-10-04
Coax Connector Repair (Sheet 1)**

4. Slide shield sleeve over shield and against shoulder of shield clamp. Slide O-ring and retainer over dielectric. Using sharp knife, trim dielectric flush with retainer. Cut conductor 3/32-inch beyond retainer.



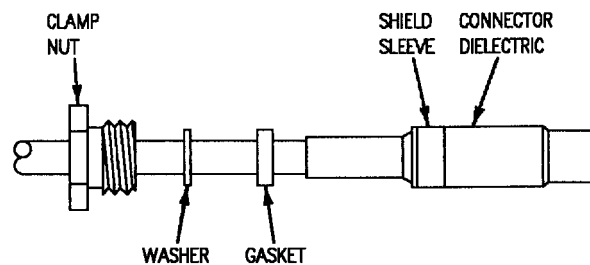
F/A-18-WRM-(317-3)02-CATI

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(319-1)02-CATI

6. Slide connector dielectric over contact and against shield sleeve.



F/A-18-WRM-(319-2)02-CATI

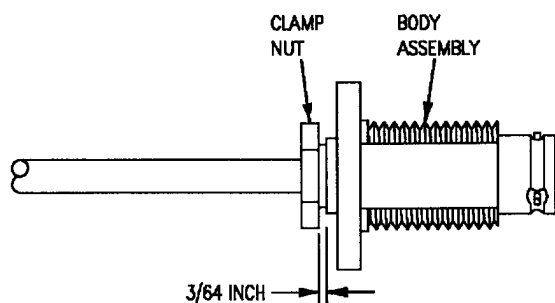
**Figure 10. M25516-19-02-04, M25516-19-03-04 and M25516-19-10-04
Coax Connector Repair (Sheet 2)**

7. Slide body assembly over connector dielectric until it stops. Slide gasket, washer and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

8. While holding body assembly, screw clamp nut into body assembly. Using torque wrench, torque clamp nut to 4 to 6 inch-pounds.



F/A-18-WRM-(319-3)02-CATI

**Figure 10. M25516-19-02-04, M25516-19-03-04 and M25516-19-10-04
Coax Connector Repair (Sheet 3)**

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****1211-XX and 1212-XX (MIL-C-25516) COAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Jacket Cut Adjustment, Figure 1	3
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Tinning Center Conductor	4
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1211-422 Coax Connector Repair, Figure 8	6
1212-004, 1212-204 and 1212-304 Coax Connector Repair, Figure 9	9

Record of Applicable Technical Directives

None

**Reference Designation to Figure
Number Index**

Reference Designation	Figure No.
15P-E006	9
15P-E007	9
66P-C004	8
72P-B009	8

1. DESCRIPTION.

2. The 1211-422, 1212-004, 1212-204 and 1212-304 are miniature coax connectors with a temperature range of -85° to +257°F.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
SN60WRMAP2-0-040	Solder

3. PROCEDURE.

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring

4. Refer to Reference Designation to Figure Number Index table in this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-164 ADJUSTMENT AND USE.

NOTE

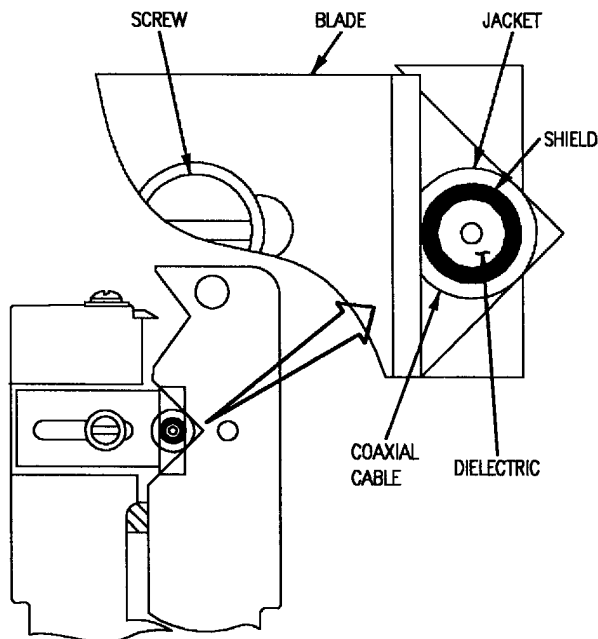
For detailed operation of coaxial wire strippers see WP010 00.

6. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 1.
- Adjust blade so it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CAT1

Figure 1. Jacket Cut Adjustment

- Adjust other blade so blade does not touch cable.
- If necessary, repeat steps 6a through 6c until blade cuts through jacket without damaging shield.

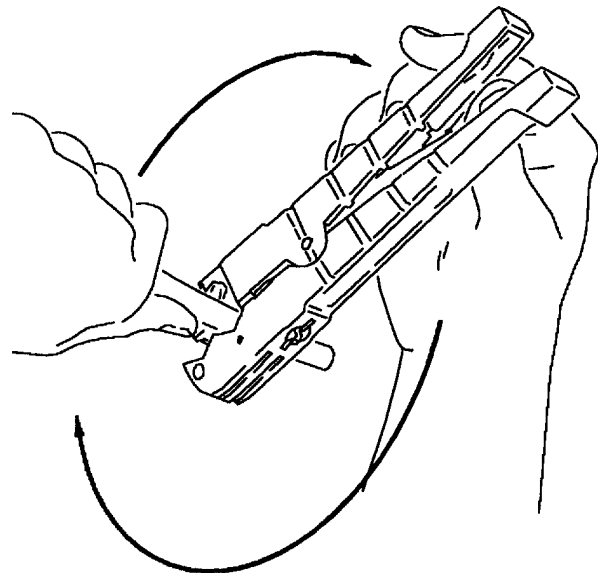
7. USE.

- Position stripper on cable so that blades face down. See figure 2.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- Remove stripper from cable.
- Remove stripped jacket.



F/A-18-WRM-(409-1)01-SCAN

Figure 2. Operation

8. SOLDERING.

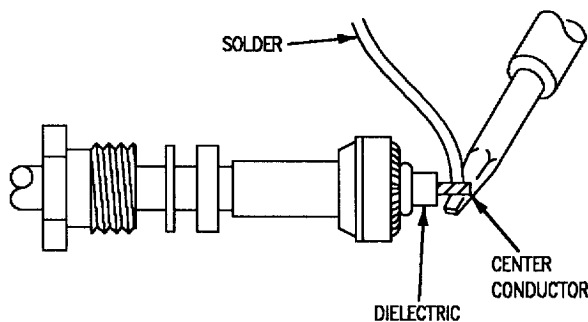
9. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

10. TINNING CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder to center conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 3.

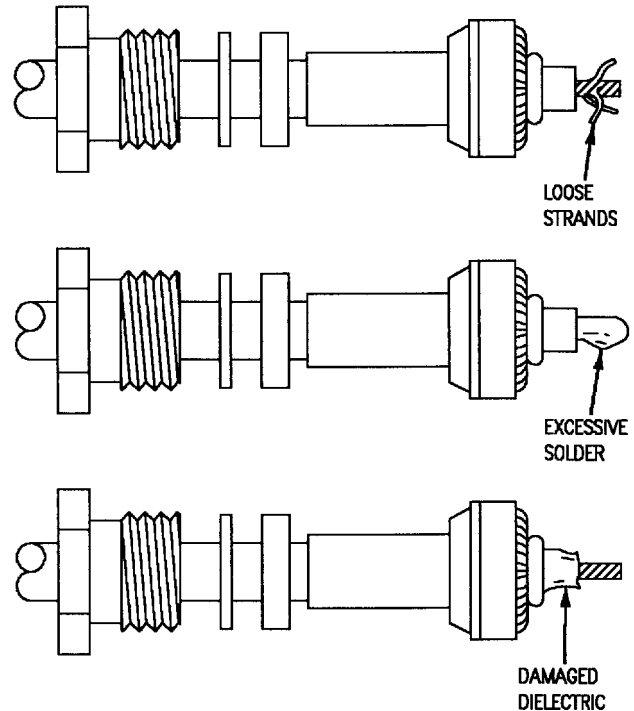


F/A-18-WRM-(880-1)02-CATI

Figure 3. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 4.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.



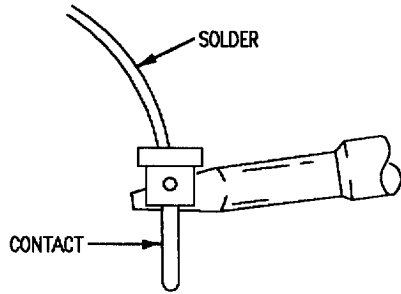
F/A-18-WRM-(880-2)02-CATI

Figure 4. Unacceptable Conditions After Tinning

11. SOLDERING CONTACT TO CENTER CONDUCTOR

a. Clean and tin soldering iron.

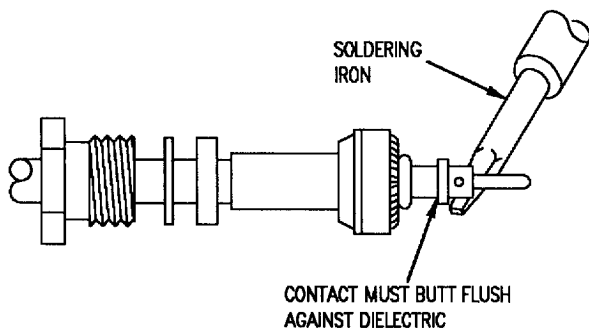
b. Apply heat to contact solder cup and fill cup half full with solder. Avoid getting solder on outside of contact. See figure 5.



F/A-18-WRM-(845-1)02-CATI

Figure 5. Filling Solder Cup

c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 6.



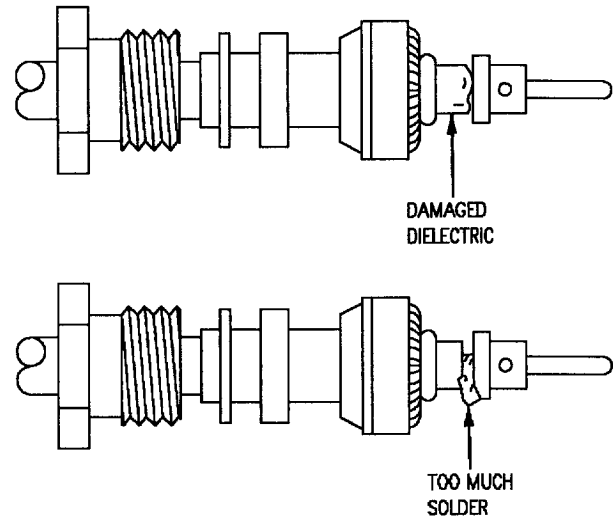
F/A-18-WRM-(845-2)02-CATI

Figure 6. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 7.

(1) Damaged dielectric.

(2) Too much solder.



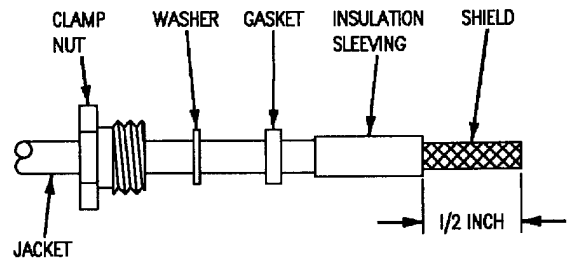
F/A-18-WRM-(845-3)02-CATI

Figure 7. Unacceptable Conditions After Soldering Contact



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide hex nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-164 adjusted for cable, remove 5/8-inch of jacket. See paragraph 5.



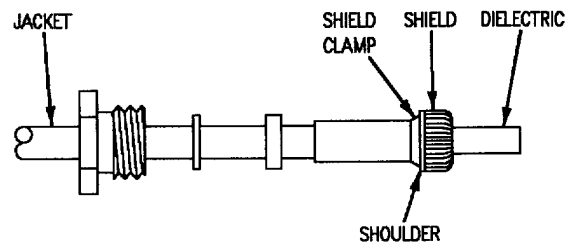
F/A-18-WRM-(317-1)02-CAT1

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

Shield strands must be smoothly and evenly distributed around face of shield clamp.

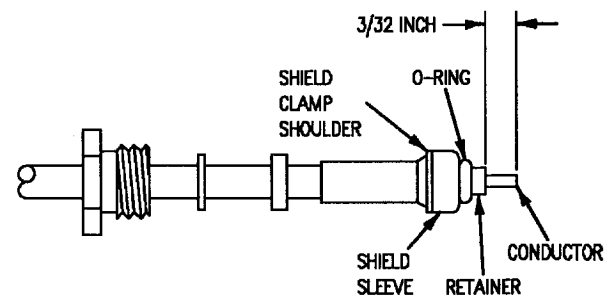
3. Comb and flare out shield. Fold shield over shield clamp and trim even with face of shield clamp.



F/A-18-WRM-(317-2)02-CAT1

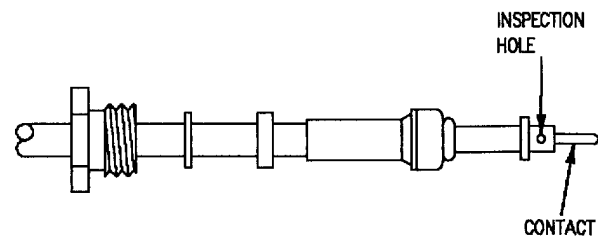
Figure 8. 1211-422 Coax Connector Repair (Sheet 1)

4. Slide shield sleeve over shield and against shoulder of shield clamp. Slide O-ring and retainer over dielectric. Trim dielectric flush with retainer. Cut conductor 3/32-inch beyond retainer.



F/A-18-WRM-(317-3)02-CATI

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(319-1)02-CATI

Figure 8. 1211-422 Coax Connector Repair (Sheet 2)

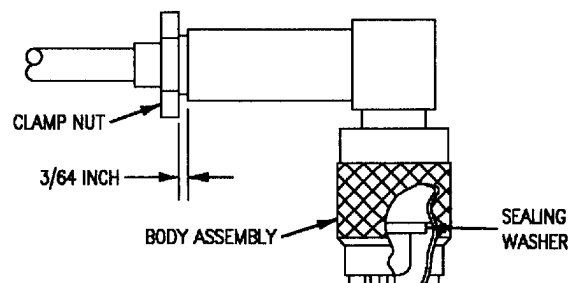
6. Slide body assembly over contact until it stops. Slide gasket, washer, and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

7. While supporting body assembly, torque clamp nut, using BT-ST-751 torque wrench, to 4 to 6 inch-pounds.

8. From front of body assembly slide sealing washer over teflon dielectric until it stops.



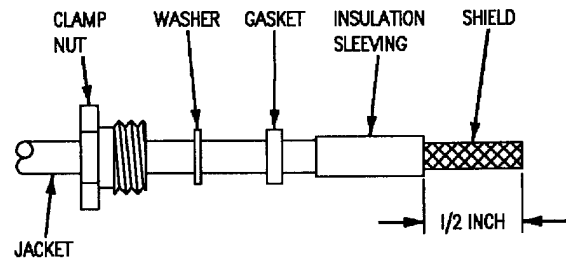
F/A-18-WRM-(849-1)02-CAT1

Figure 8. 1211-422 Coax Connector Repair (Sheet 3)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide hex nut, washer, and gasket over cable. Grooved end of gasket must face end of cable. Using coaxial stripper 45-164 adjusted for cable, remove 5/8-inch of jacket. See paragraph 5.



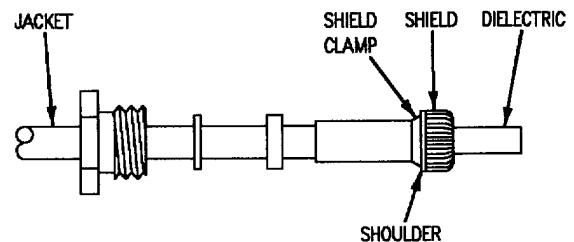
F/A-18-WRM-(317-1)02-CATI

2. Slide shield clamp, with tapered end towards gasket, over shield and against jacket.

NOTE

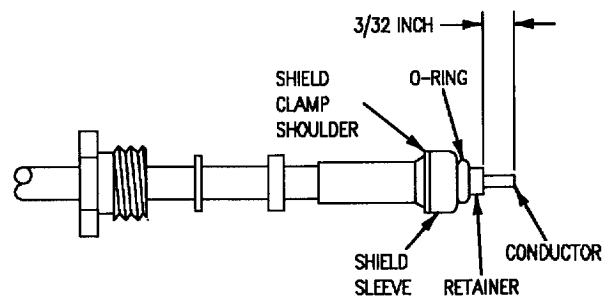
Shield strands must be smoothly and evenly distributed around face of shield clamp.

3. Comb and flare out shield. Fold shield over shield clamp and trim even with face of shield clamp.



F/A-18-WRM-(317-2)02-CATI

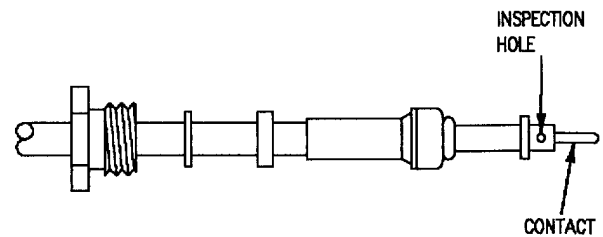
4. Slide shield sleeve over shield and against shoulder of shield clamp. Slide O-ring and retainer over dielectric. Trim dielectric flush with retainer. Cut conductor. 3/32-inch beyond retainer.



F/A-18-WRM-(317-3)02-CATI

Figure 9. 1212-004, 1212-204 and 1212-304 Coax Connector Repair (Sheet 1)

5. Using W60-3 soldering iron, tin center conductor. See paragraph 10. Using W60-3 soldering iron, solder contact to center conductor. See paragraph 11.



F/A-18-WRM-(319-1)02-CATI

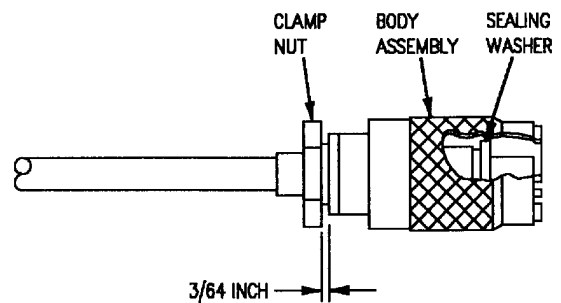
6. Slide body assembly over contact until it stops. Slide gasket, washer, and clamp nut into body assembly. Make sure groove in gasket goes over beveled edge of shield clamp.



Do not allow body assembly to rotate on cable while tightening clamp nut.

7. While supporting body assembly, torque clamp nut to 4 to 6 inch-pounds.

8. From front of body assembly slide sealing washer over teflon dielectric until it stops.



F/A-18-WRM-(317-6)02-CATI

Figure 9. 1212-004, 1212-204 and 1212-304 Coax Connector Repair (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE

WIRING REPAIR WITH PARTS

DATA CABLE ASSEMBLY REPLACEABLE FRONT ENDS

Reference Material

Tactical Electronic Warfare Systems	A1-F18AC-760-300
Weapon Control System	A1-F18AC-740-300

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Replaceable Ends, Figure 1	9
Replacement Front Ends Part Numbers, Table 1	2
Support Equipment Required	7

Record of Applicable Technical Directives

None

- 1. INTRODUCTION.**

2. The cable assemblies listed in table 1 are not repairable, however, when a fault is attributed to the cable ends, replacement is possible. This work package is supplemental to those in A1-F18AC-740-300 and
- A1-F18AC-760-300 covering cable assemblies. Reference to either A1-F18AC-740-300 or A1-F18AC-760-300 is necessary whenever replacement has been accomplished to check or calibrate critical electrical characteristics. See table 1 for replacement part numbers.

Table 1. Replacement Front Ends Part Numbers









Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
60J-P007	#1538-8215-21	#1538-5443	F/A-18B
60J-S027	#1538-8215-67	#1538-8963	
60J-T029	#1538-8215-69	#1538-8963	
60P-P008A	#1538-8215-35	#1538-8719	F/A-18A
60P-P008A	#1538-8215-21	#1538-5453	F/A-18B
60P-P008B	#1538-8215-34	#1538-8719	F/A-18A F/A-18B
60P-P008C	#1538-8215-33	#1538-8719	F/A-18A F/A-18B
60P-P008D	#1538-8215-69	#1538-8719	
60P-P008D	#1538-8215-18	#1538-8718	
60P-P008E	#1538-8215-67	#1538-8719	
60P-P008E	#1538-8215-17	#1538-8719	
60P-S011	#1538-8215-17	#1538-8718	
60P-T014	#1538-8215-18	#1538-8719	
60P-U012	#1538-8215-33	#1538-8513	F/A-18A F/A-18B
60P-V015	#1538-8215-34	#1538-8718	F/A-18A F/A-18B
62J-B037	†AE 9067	†MI-19525	F/A-18A F/A-18B
62J-B038	†AE 9068	†MI-19525	F/A-18A F/A-18B
62J-E021	†AE 8837	†MI-19525	F/A-18A
62J-E022	†AE 8838	†MI-19525	F/A-18A
62J-E023	†AE 8839	†MI-19525	F/A-18A
62J-P021	†AE 8726	†MI-19990	F/A-18B

Table 1. Replacement Front Ends Part Numbers (Continued)

Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
62J-P023	†AE 8727	†MI-19990	F/A-18B
62P-A013B	†AE 8834	†MI-19515	F/A-18A F/A-18B
62P-A013C	†AE 8843	†MI-19518	F/A-18A F/A-18B
62P-A019A	†AE 8943	†MI-19994	F/A-18A F/A-18B
62P-A019B	†AE 8944	†MI-19994	F/A-18A F/A-18B
62P-A028A	†AE 8833	†MI-19515	F/A-18A F/A-18B
62P-A028B	†AE 8843	†MI-19994	F/A-18A F/A-18B
62P-A028C	†AE 8844	†MI-19994	F/A-18A F/A-18B
62P-A030A	†AE 8943	†MI-19518	F/A-18A F/A-18B
62P-A030C	†AE 8944	†MI-19518	F/A-18A F/A-18B
62P-B010B	†AE 8832	†MI-19518	F/A-18A F/A-18B
62P-B010C	†AE 8844	†MI-19515	F/A-18A F/A-18B
62P-B014B	†AE 9068	†MI-19516	F/A-18A F/A-18B
62P-B014C	†AE 9067	†MI-19516	F/A-18A F/A-18B
62P-B016A	†AE 8943	†MI-19994	F/A-18A F/A-18B
62P-B016B	†AE 8944	†MI-19994	F/A-18A F/A-18B

Table 1. Replacement Front Ends Part Numbers (Continued)

Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
62P-B029A	†AE 8943	†MI-19518	F/A-18A F/A-18B
62P-B029C	†AE 8944	†MI-19518	F/A-18A F/A-18B
62P-B037	†AE 8836	†MI-19518	F/A-18A F/A-18B
62P-B038	†AE 8835	†MI-19490	F/A-18A F/A-18B
62P-E009A	†AE 8832	†MI-19516	F/A-18A F/A-18B
62P-E009B	†AE 8837	†MI-19516	F/A-18A
62P-E009B	†AE 8840	†MI-19516	F/A-18B
62P-E009C	†AE 8839	†MI-19516	F/A-18A
62P-E009C	†AE 8842	†MI-19516	F/A-18B
62P-E009D	†AE 8834	†MI-19518	F/A-18A F/A-18B
62P-E009E	†AE 8835	†MI-19498	F/A-18A F/A-18B
62P-E009F	†AE 8836	†MI-19515	F/A-18A F/A-18B
62P-E009G	†AE 8833	†MI-19516	F/A-18A F/A-18B
62P-E009H	†AE 8838	†MI-19516	F/A-18A
62P-E009H	†AE 8841	†MI-19516	F/A-18B
62P-E021	†AE 8840	†MI-19518	F/A-18B
62P-E021	†AE 9924	†MI-19989	F/A-18A
62P-E021	†AE 8721	†MI-19989	F/A-18A
62P-E022	†AE 8841	†MI-19518	F/A-18B
62P-E022	†AE 8725	†MI-19989	F/A-18A

Table 1. Replacement Front Ends Part Numbers (Continued)

Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
62P-E022	†AE 9226	†MI-19989	F/A-18A
62P-E023	†AE 8842	†MI-19518	F/A-18B
62P-E023	†AE 8724	†MI-19989	F/A-18A
62P-E023	†AE 9225	†MI-19989	F/A-18A
62P-P024A	†AE 8725	†MI-19989	F/A-18A
62P-P024A	†AE 9226	†MI-19989	F/A-18A
62P-P024B	†AE 8723	†MI-19989	F/A-18A F/A-18B
62P-P024C	†AE 8722	†MI-19989	F/A-18A
62P-S012B	†AE 9225	†MI-17804	F/A-18A
62P-S012B	†AE 8727	†MI-17801	F/A-18B
62P-S012B	†AE 8724	†MI-17801	F/A-18A
62P-S012C	†AE 8723	†MI-19991	F/A-18A F/A-18B
62P-T011B	†AE 8726	†MI-17801	F/A-18B
62P-T011B	†AE 9224	†MI-17801	F/A-18A
62P-T011B	†AE 8721	†MI-17801	F/A-18A
62P-T011C	†AE 8722	†MI-19991	F/A-18A F/A-18B
64J-P021	#1538-8215-48	#1538-8963	F/A-18A F/A-18B
64J-P021	#1538-8215-71	#1538-8963	F/A-18A F/A-18B
64J-R022	#1538-8215-41	#1538-8907	F/A-18A F/A-18B
64J-R022	#1538-8215-72	#1538-8907	F/A-18A F/A-18B

Table 1. Replacement Front Ends Part Numbers (Continued)

Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
64P-E001C	#1538-8962	#1538-5833	F/A-18A F/A-18B
64P-E001C	#1538-8445	#1538-5833	F/A-18A F/A-18B
64P-E001L	#1538-8444	#1538-5833	F/A-18A F/A-18B
64P-E001R	#1538-8441	#1538-5989	F/A-18A
64P-E001R	#1538-8510	#1538-5989	F/A-18B
64P-E001S	#1538-8443	#1538-5989	F/A-18A
64P-E001S	#1538-8512	#1538-5989	F/A-18A F/A-18B
64P-E001U	#1538-8446	#1538-5833	F/A-18A F/A-18B
64P-E001V	#1538-8447	#1538-5833	F/A-18A F/A-18B
64P-E002B	†AE 6410	†MI-17042	F/A-18A F/A-18B
64P-E002B	#1538-8215-48	#1538-8908	F/A-18A F/A-18B
64P-E002B	#1538-8215-71	#1538-8908	F/A-18A F/A-18B
64P-E003C	†AE 6411	†MI-19518	F/A-18A F/A-18B
64P-E003C	#1538-8215-51	#1538-5988	F/A-18A F/A-18B
64P-E003C	#1538-8215-72	#1538-5988	F/A-18A F/A-18B
64P-E010A	#1538-8441	#1538-5988	F/A-18A
64P-E010A	#1538-8511	#1538-5989	F/A-18B
64P-E010B	#1538-8442	#1538-5988	F/A-18A

Table 1. Replacement Front Ends Part Numbers (Continued)

Reference Designation	Cable Part Number	Replacement Front End Part No.	Use On
64P-E010B	#1538-8510	#1538-5988	F/A-18B
64P-F004A	#1538-8442	#1538-5989	F/A-18A
64P-F004A	#1538-8511	#1538-5989	F/A-18B
64P-F004B	#1538-8443	#1538-5988	F/A-18A
64P-F004B	#1538-8512	#1538-5989	F/A-18B
64P-S001S	#1538-8512	#1538-5989	F/A-18B
64P-S006	†AE 6410	†MI-19889	F/A-18A F/A-18B
64P-T008	†AE 6411	†MI-19987	F/A-18A F/A-18B
67P-S004	†AE 5719	†1994	F/A-18A F/A-18B
67P-T001B	†AE 5719	†19494	F/A-18A F/A-18B
67P-T001C	†AE 5718	†19494	F/A-18A F/A-18B
67P-T005	†AE 5718	†19494	F/A-18A F/A-18B
† Times Wire Part Numbers # Adams Russel Part Numbers 1 F/A-18A 161706 AND UP, F/A-18B 161711 AND UP. 2 F/A-18A 161353 THRU 161705, F/A-18B 161354 THRU 161704 AND 161707.			

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set - Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
MS122	Lubricant, Fluorocarbon

3. PROCEDURE.

NOTE

The 9/16 or 3/4-inch wrench used for this step must be thinner than 1/8-inch.

a. Hold the intermediate body of the connector assembly using a 9/16-inch open end wrench for the 1538-5988 and 1538-5989 replaceable ends and their intermediate bodies. Use 3/4-inch open end wrench for the 1538-5833 replaceable ends.

b. Install a torque wrench to the front wrench flats.

c. Apply a counterclockwise force with the torque wrench to break loose the front end.

NOTE

When replacing the head of 90° connector, the head portion of the connector should never be rotated during installation or removal. Instead, only the clamping nut should be rotated while the connector head is held stationary. This precaution will prevent damage to the internal bullet during installation. When replacing the head it should be clocked (oriented) to the correct position prior to Step 3g.

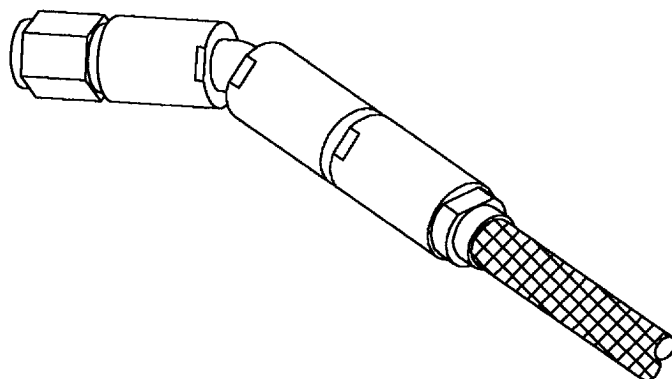
d. Remove the packing on the intermediate body and replace it with the correct packing. Lubricate the packing with a small amount of fluorocarbon lubricant.

e. Install a replacement front end by hand, threading in a clockwise direction.

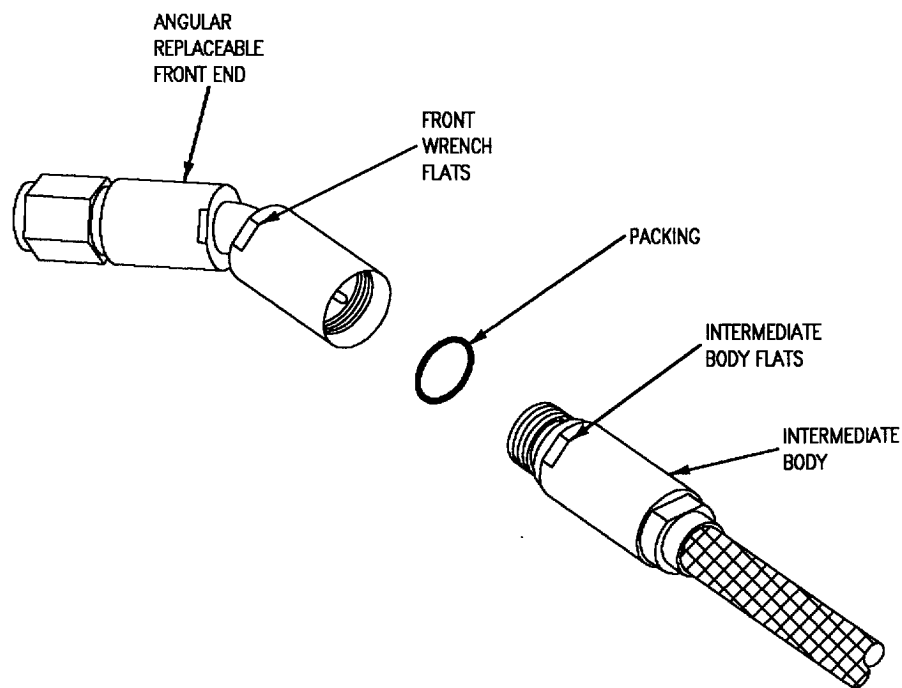
f. Hold the intermediate body with a wrench.

g. Install a torque wrench to the front wrench flats.

h. Using BT-ST-751 torque wrench, torque to 100 to 110 inch-pounds. ■



ASSEMBLED VIEW
ANGULAR REPLACEABLE FRONT END



F/A-18-WRM-(842-1)02-CAT1

Figure 1. Replaceable Ends (Sheet 1)

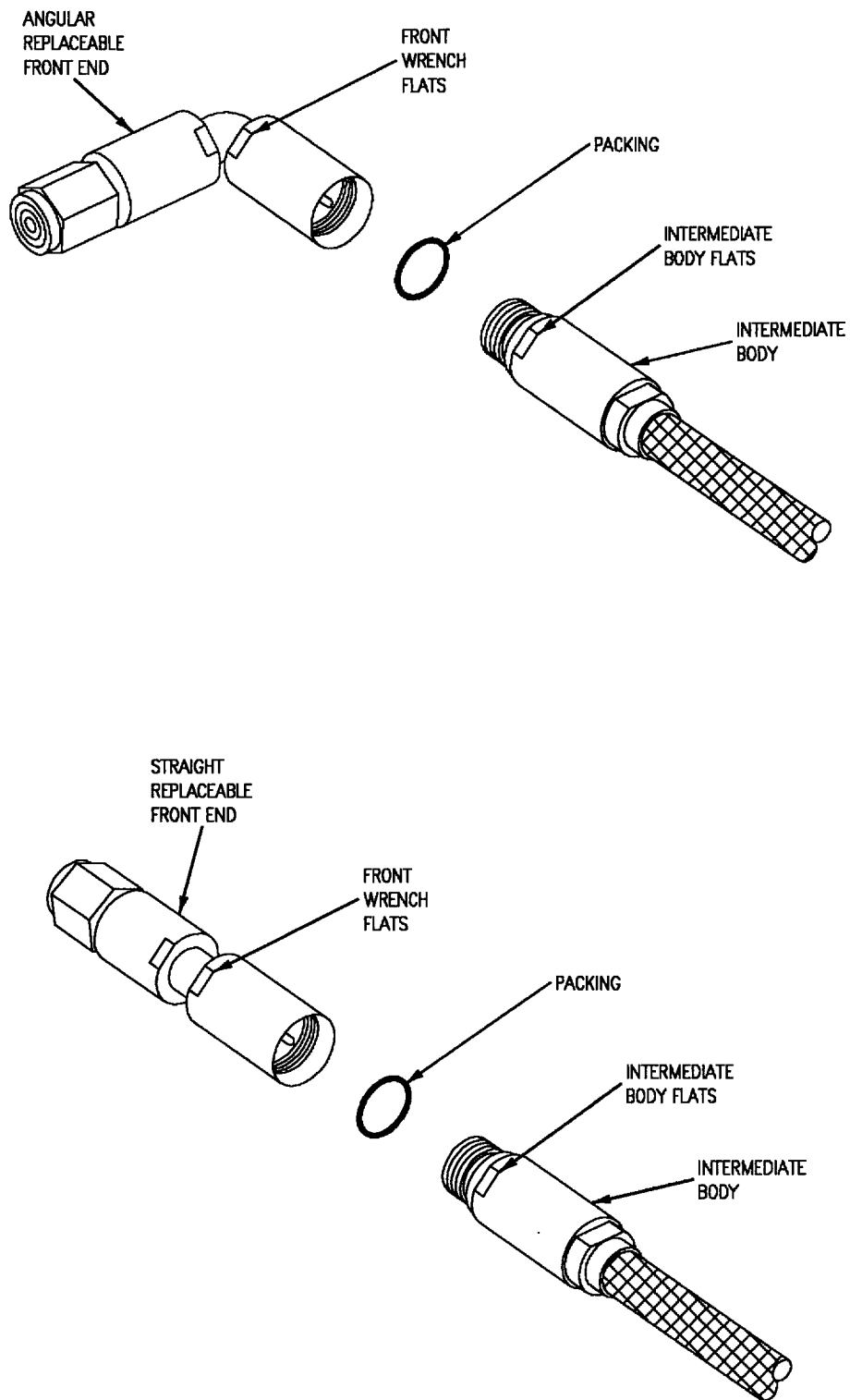


Figure 1. Replaceable Ends (Sheet 2)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****31-33449-XX, 31-34179 XX, 5801-XXXX, 5811-XXXX and 5813-XXXX****(MIL-C-39012) TWINAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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





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Unacceptable Conditions After Tinning, Figure 10	8
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31-34179-1 Twinax Connector Repair, Figure 16	16
31-34179-2 Twinax Connector Repair, Figure 17	19
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



Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference Designation to Figure
Number Index (Continued)

Reference Designation	Figure No.	Reference Designation	Figure No.
		76P-F001E	16
		76P-F001G	16
61P-E018	14	76P-F002E	16
61P-E166	14	76P-F002G	16
61P-F001D	15	77P-K001E	16
61P-F001E	15	77P-K001G	16
61P-F001F	15	77P-L001E	16
61P-F001H	15	77P-L001G	16
61P-F001J	15	 80P-J020	17
61P-F001K	15	 80P-J020	16
61P-F036	14	 80P-L021	17
61P-F037	14	 80P-L021	16
61P-F038	14	 80P-L022	17
61P-F039	14	 80P-L022	16
61P-R168	15		
61P-U027	14		
61P-U041	14		
61P-V026	14		
61P-V042	14		
61P-W096	14		
61P-Y096	14		

LEGEND

	161353 THRU 161924.
	161925 AND UP.
	F/A-18B 161354 THRU 161924
	F/A-18B 161932 AND UP

1. DESCRIPTION.

2. These connectors are twin conductor, crimp and solder type twinax plugs. There are two types of connectors, straight and right angle. These connectors have a temperature range of -85° to +392°F. They are not repairable.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317S100-1	Nitrogen Servicing Unit - NAN-3
-	Torque Wrench, 0 to 25 Inch-Pounds

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve
SN60WRMAP2-0-040	Solder

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163
ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

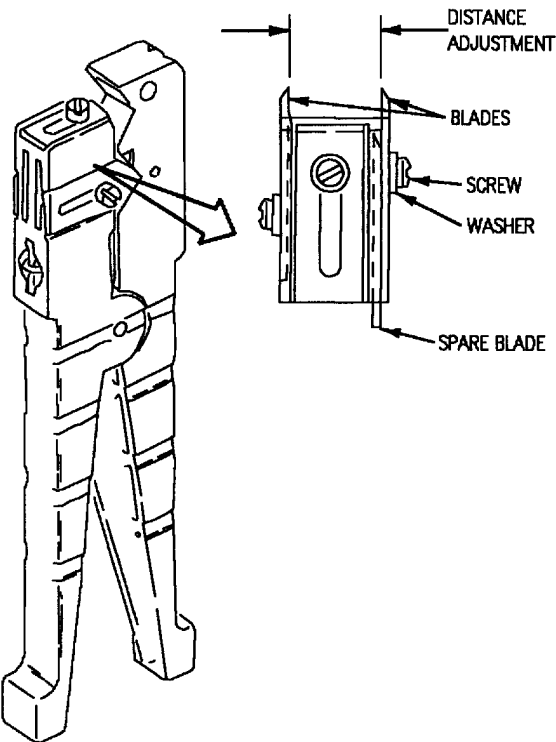
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- c. Install screws and tighten finger tight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

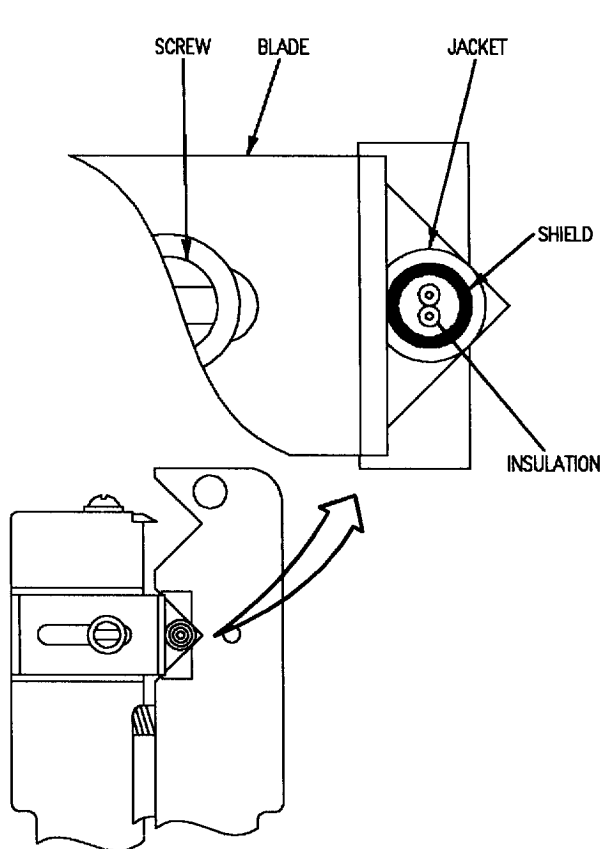
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



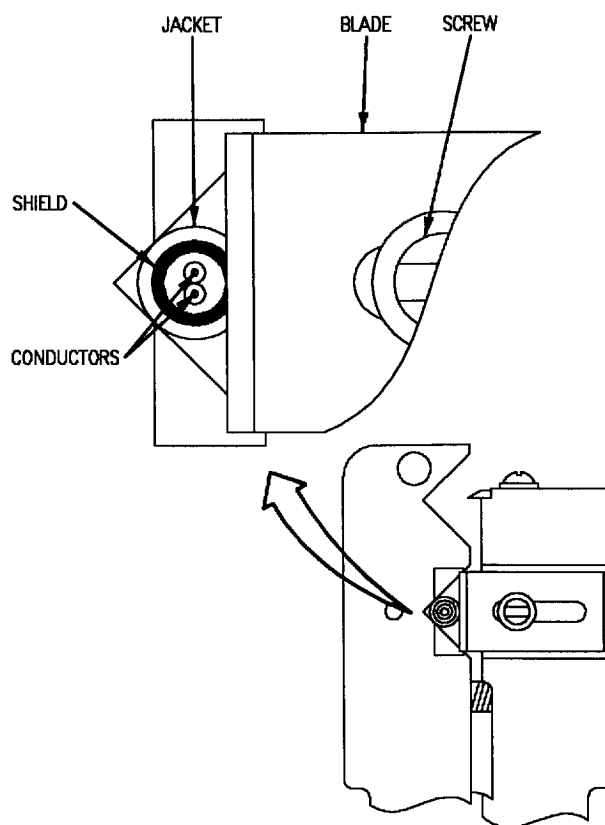
F/A-18-WRM-(561-1)01-SCAN

Figure 2. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(562-1)01-CATI

Figure 3. Shield Cut Adjustment

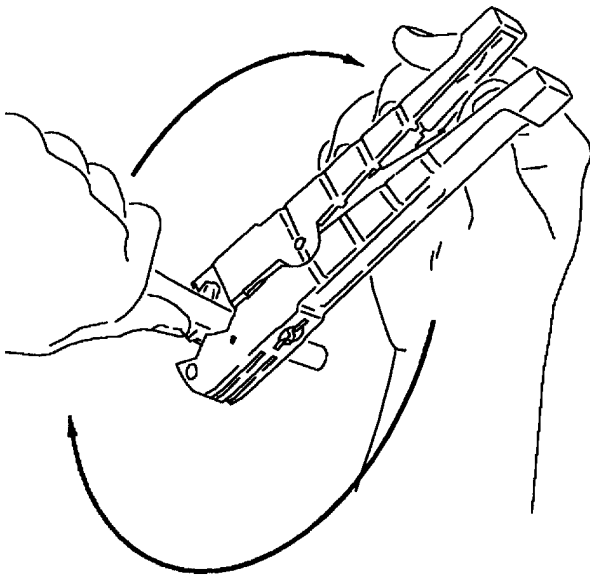
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

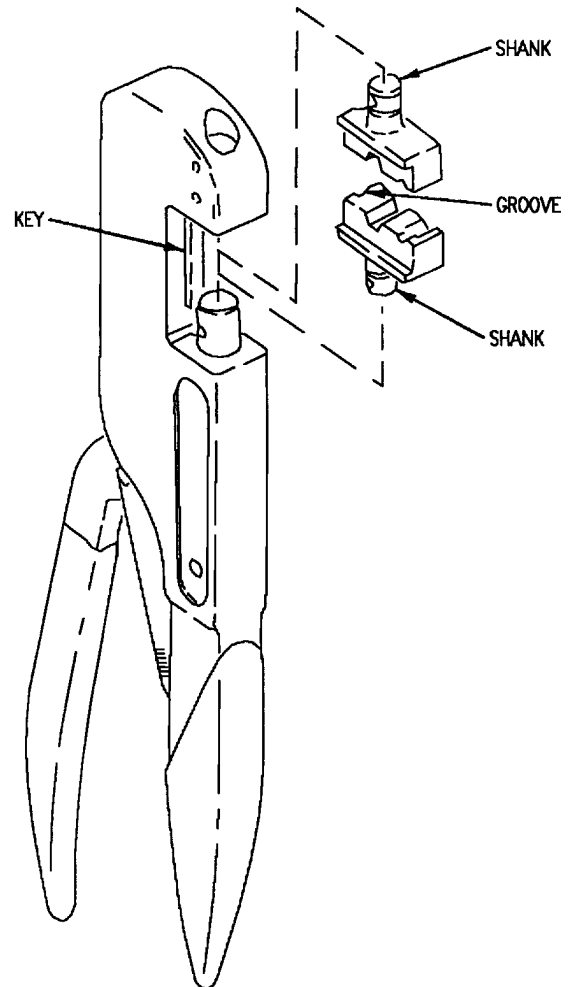
- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.

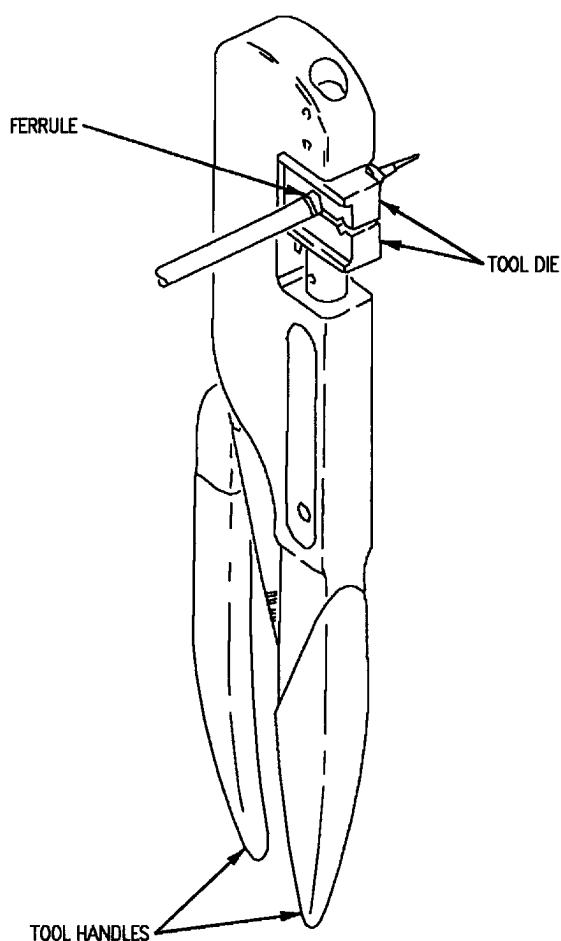


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

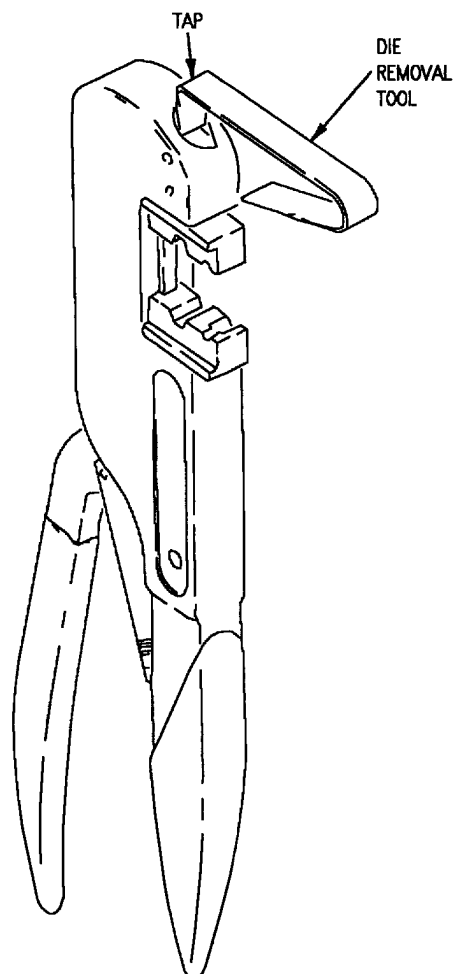


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

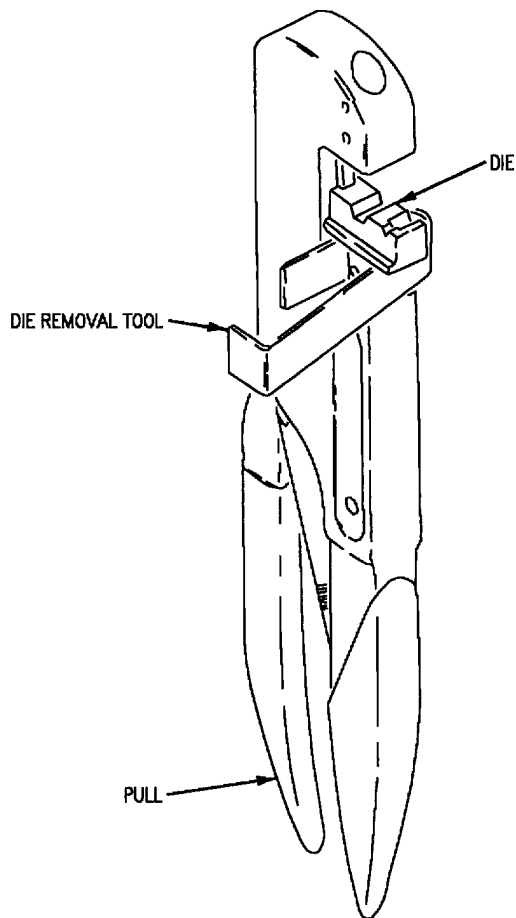


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

13. SOLDERING.

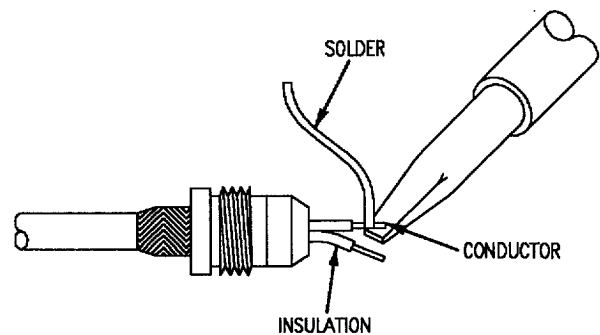
14. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

15. TINNING CONDUCTORS.

a. Clean and tin soldering iron.

b. Make sure conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder to conductor. Remove heat when solder flows into conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 9.



F/A-18-WRM-(583-1)01-CATI

Figure 9. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 10.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged insulation.

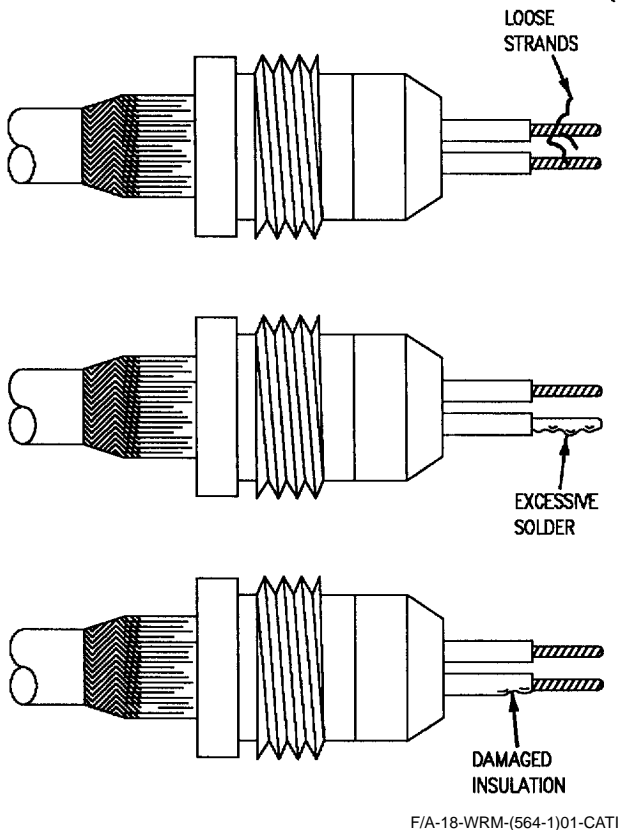


Figure 10. Unacceptable Conditions After Tinning

16. SOLDERING CONTACT TO CONDUCTOR.

- a. Clean and tin soldering iron.

b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of See figure 11.

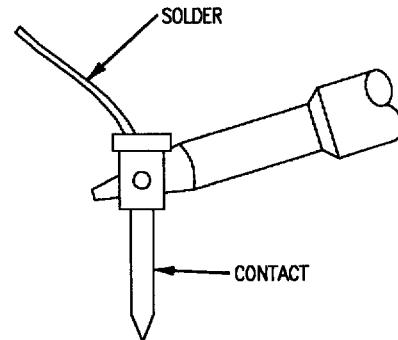


Figure 11. Filling Solder Cup

c. Position contact on conductor and apply heat to solder cup. When solder melts, slide contact over conductor. Remove heat as soon as solder flows between conductor and contact. Hold cable and contact steady until solder hardens. See figure 12.

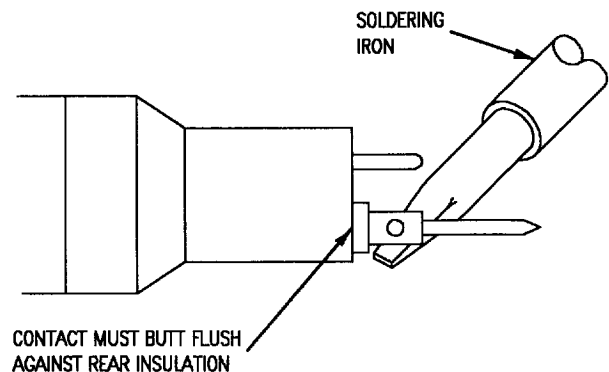
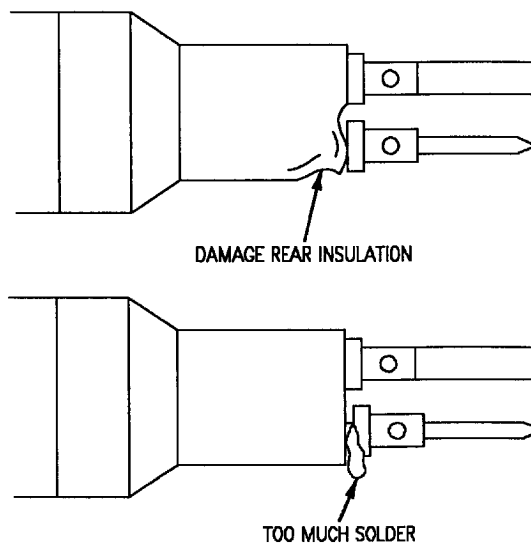


Figure 12. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from conductor to contact. The below conditions are unacceptable. See figure 13.

- (1) Too much solder.
- (2) Damaged insulator.



F/A-18-WRM-(567-1)01-CATI

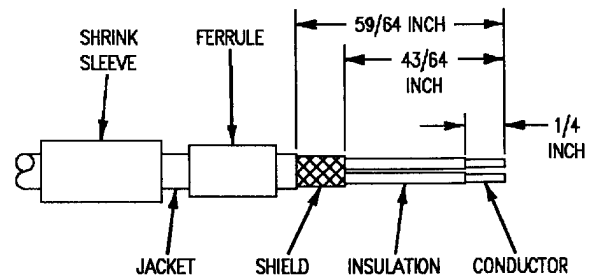
Figure 13. Unacceptable Conditions After Soldering Contact



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

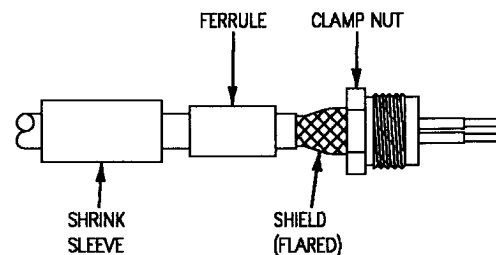
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 1/4-inch between blades (see paragraph 10). Strip cable jacket 59/64 inch and shield 43/64-inch. Using sharp knife, remove 1/4-inch of insulation from each conductor.



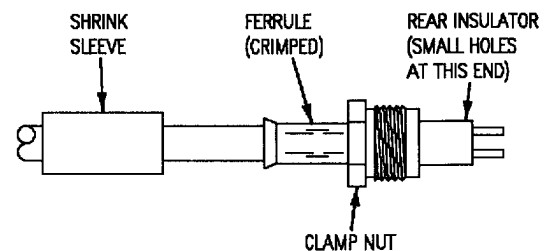
F/A-18-WRM-(237-1)02-CATI

2. Slide clamp nut over support, then slide support over conductors and under shield.



F/A-18-WRM-(237-2)02-CATI

3. Slide ferrule over shield until it butts against clamp nut. Using M22520/5-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9). Using W60-3 soldering iron, tin center conductors (see paragraph 15). Slide rear insulator over conductors.



F/A-18-WRM-(237-3)02-CATI

Figure 14. 31-33449-XX and 5801-XXXX Twinax Connector Repair (Sheet 1)

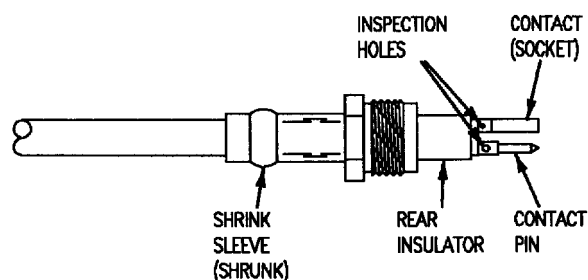
4. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

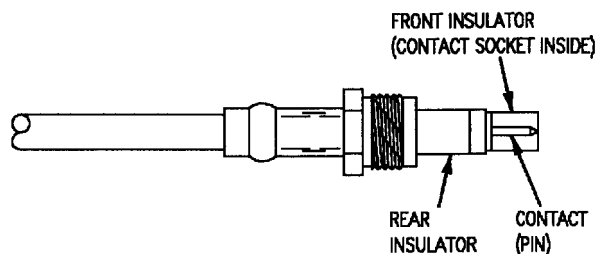
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

5. Shrink sleeve using heat tool and nitrogen servicing unit. Using W60-3 soldering iron, solder contact to applicable wire (see paragraph 16).



F/A-18-WRM-(237-4)02-CAT I

6. Slide front insulator on contact so that the pin contact is exposed.



F/A-18-WRM-(237-5)02-CAT I

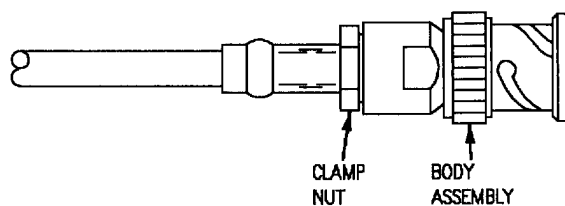
Figure 14. 31-33449-XX and 5801-XXXX Twinax Connector Repair (Sheet 2)

7. Engage front insulator with insulator in body assembly and insert cable into body assembly.



To prevent damage to connector, do not allow body assembly or cable to rotate while tightening clamp nut.

8. While supporting body assembly, torque clamp nut 15 inch-pounds.



F/A-18-WRM-(237-6)02-CAT I

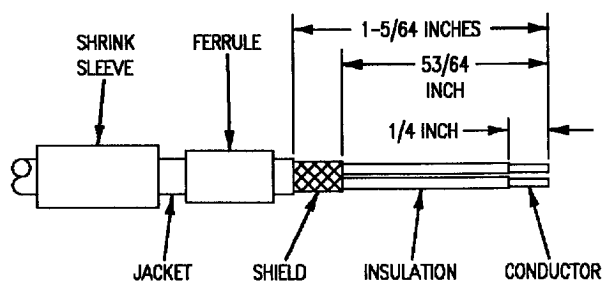
Figure 14. 31-33449-XX and 5801-XXXX Twinax Connector Repair (Sheet 3)



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

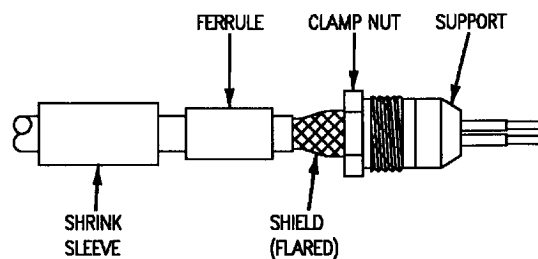
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 1/4-inch between blades (see paragraph 5). Strip cable jacket 1-5/64-inch and shield 53/64-inch. Using sharp knife, remove 1/4-inch of insulation from each conductor.



F/A-18-WRM-(238-1)02-CATI

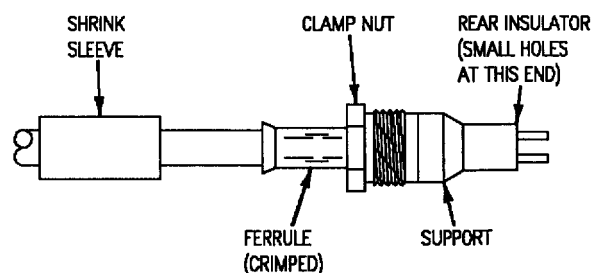
2. Slide clamp nut over support, then slide support over conductors and under shield.



F/A-18-WRM-(238-2)02-CATI

Figure 15. 5811-XXXX and 5813-XXXX Twinax Connector Repair (Sheet 1)

3. Slide ferrule over shield until it butts against support. Using M22520/5-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9). Using W60-3 soldering iron, tin center conductors (see paragraph 15).



F/A-18-WRM-(238-3)02-CATI

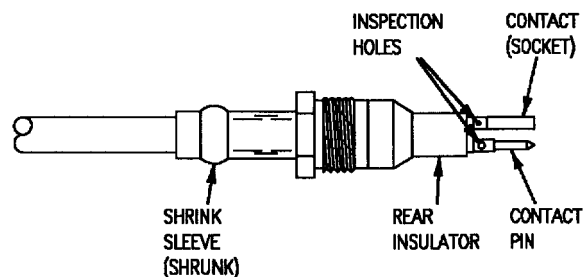
4. Slide shrink sleeve over ferrule until it butts against support.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

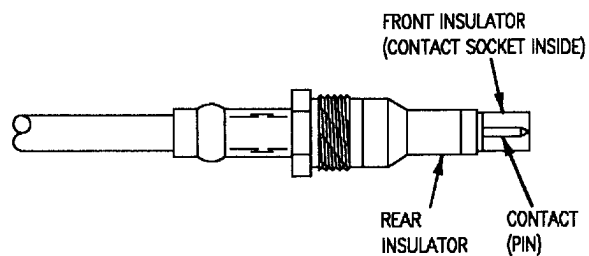
5. Shrink sleeve using heat tool and nitrogen servicing unit. Using W60-3 soldering iron, solder contacts to applicable wires (see paragraph 16).



F/A-18-WRM-(238-4)02-CATI

Figure 15. 5811-XXXX and 5813-XXXX Twinax Connector Repair (Sheet 2)

6. Slide front insulator on contacts so that the pin contact is exposed.



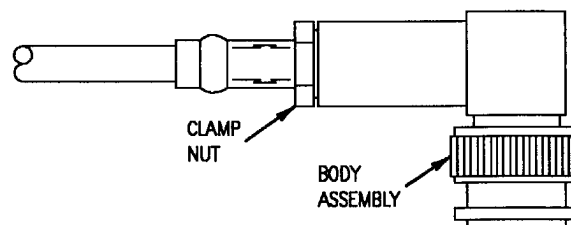
F/A-18-WRM-(238-5)02-CAT I

7. Engage front insulator with insulator in body assembly and insert cable into body assembly.



To prevent damage to connector, do not allow body assembly or cable to rotate while tightening clamp nut.

8. While holding body assembly, screw clamp nut into body assembly. Using torque wrench torque clamp nut 15 inch-pounds.



F/A-18-WRM-(238-6)02-CAT I

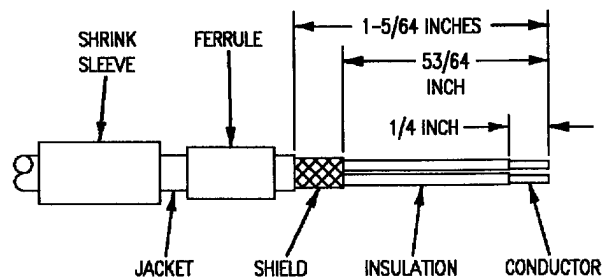
Figure 15. 5811-XXXX and 5813-XXXX Twinax Connector Repair (Sheet 3)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

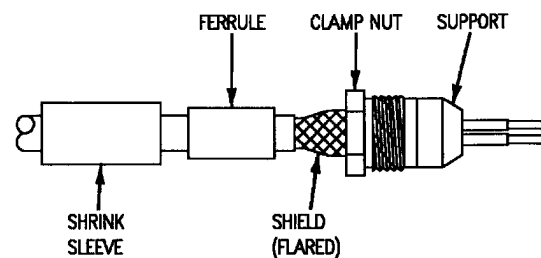
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 1/4-inch between blades (see paragraph 5). Strip cable jacket 1-5/64-inch and shield 53/64-inch. Using sharp knife, remove 1/4-inch of insulation from each conductor.



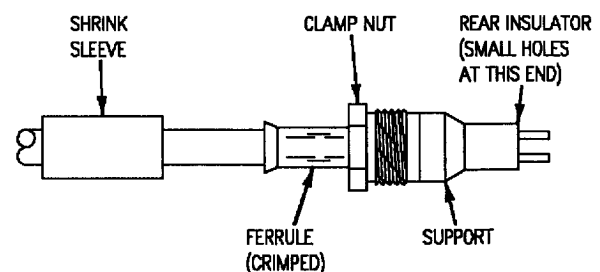
F/A-18-WRM-(238-1)02-CAT I

2. Slide clamp nut over support, then slide support over conductors and under shield.



F/A-18-WRM-(238-2)02-CAT I

3. Slide ferrule over shield until it butts against support. Using M22520/5-35 die set B cavity and M22520/5-01 crimping tool frame, crimp ferrule in A cavity of die set (see paragraph 9). Using W60-3 soldering iron, tin center conductors (see paragraph 15). Slide rear insulator over conductors.



F/A-18-WRM-(238-3)02-CAT I

Figure 16. 31-34179-1 Twinax Connector Repair (Sheet 1)

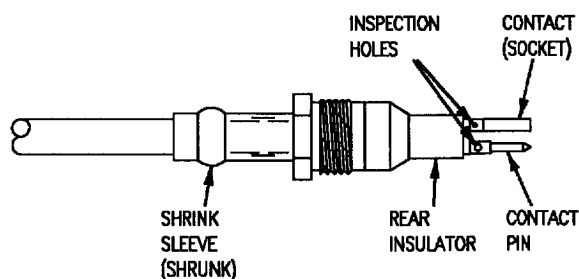
4. Slide shrink sleeve over ferrule until it butts against support.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

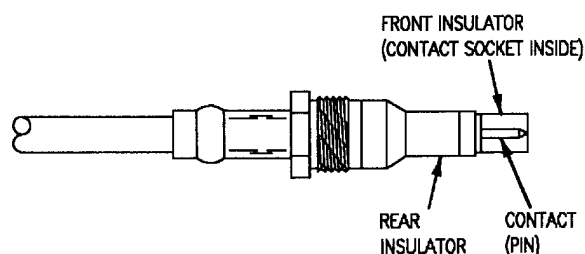
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

5. Shrink sleeve using heat tool and nitrogen servicing unit. Using W60-3 soldering iron, solder contacts to applicable wires (see paragraph 16).



F/A-18-WRM-(238-4)02-CAT I

6. Slide front insulator on contact so that the pin contact is exposed.



F/A-18-WRM-(238-5)02-CAT I

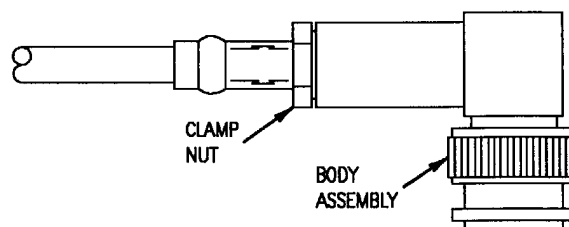
Figure 16. 31-34179-1 Twinax Connector Repair (Sheet 2)

7. Engage front insulator with insulator in body assembly and insert cable into body assembly.



To prevent damage to connector, do not allow assembly or cable to rotate while tightening clamp nut.

8. While holding body assembly, screw clamp nut into body assembly. Using torque wrench torque clamp nut 15 inch-pounds.



F/A-18-WRM-(238-6)02-CAT I

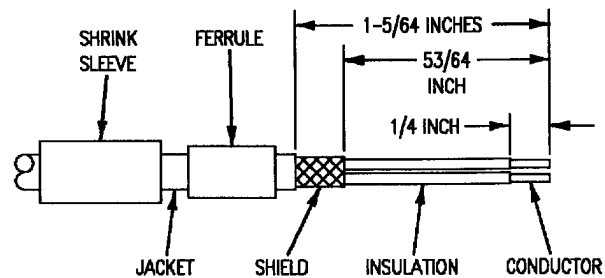
Figure 16. 31-34179-1 Twinax Connector Repair (Sheet 3)

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

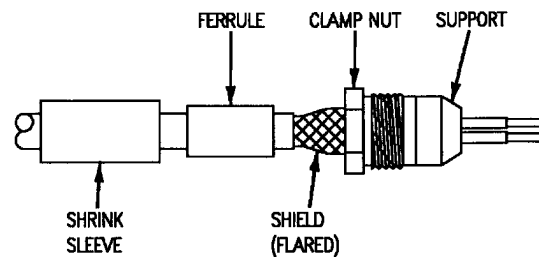
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 1/4-inch between blades (see paragraph 5). Strip cable jacket 1-5/64-inch and shield 53/64-inch. Using sharp knife, remove 1/4-inch of insulation from each conductor.



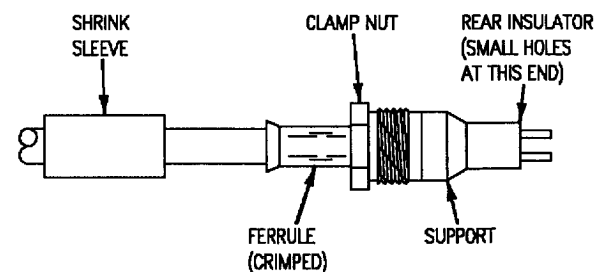
F/A-18-WRM-(238-1)02-CAT1

2. Slide clamp nut over support, then slide support over conductors and under shield.



F/A-18-WRM-(238-2)02-CAT1

3. Slide ferrule over shield until it butts against support. Using M22520/5-35 die set and M22520/5-01 crimping tool frame, crimp ferrule in B cavity of die set (see paragraph 9). Using W60-3 soldering iron, tin center conductors (see paragraph 15). Slide rear insulator over conductors.



F/A-18-WRM-(238-3)02-CAT1

Figure 17. 31-34179-2 Twinax Connector Repair (Sheet 1)

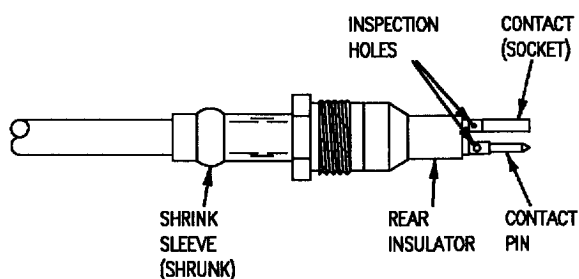
4. Slide shrink sleeve over ferrule until it butts against support.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

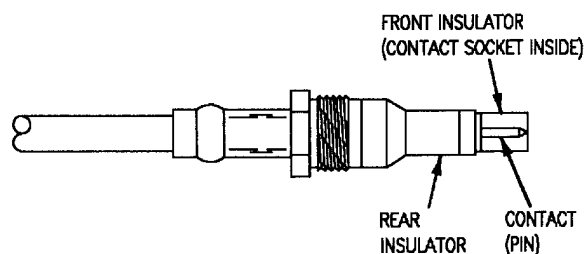
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

5. Shrink sleeve using heat tool and nitrogen servicing unit. Using W60-3 soldering iron, solder contacts to applicable wires (see paragraph 16).



F/A-18-WRM-(238-4)02-CATI

6. Slide front insulator on contacts so that the pin contact is exposed.



F/A-18-WRM-(238-5)02-CATI

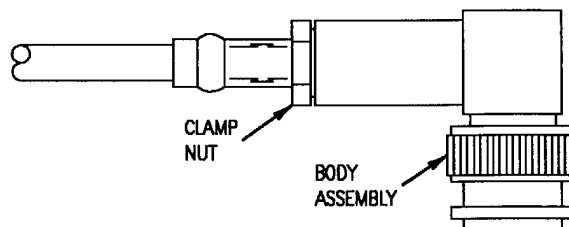
Figure 17. 31-34179-2 Twinax Connector Repair (Sheet 2)

7. Engage front insulator with insulator in body assembly and insert cable into body assembly.



To prevent damage to connector, do not allow body assembly or cable to rotate while tightening clamp nut.

8. While holding body assembly, torque clamp nut 15-inch-pounds.



F/A-18-WRM-(238-6)02-CAT1

Figure 17. 31-34179-2 Twinax Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****31-33819-13 and 5841-XXXX (MIL-C-39012) TWINAX CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure Number Index		Support Equipment Required	
Reference Designation	Figure No.	Part Number or Type Designation	Nomenclature
61J-E018	14	HT-900	Heat Tool
61J-E166	14	3308AS100	Repair Set - Wire and Connector
61J-F036	14	1317AS100-1	Nitrogen Servicing Unit - NAN-3
61J-F037	14		
61J-F038	14	BT-ST-751-E	Torque Wrench, 0 to 25 Inch-Pounds
61J-F039	14		
61J-P110C	14		
61J-R036	14		
61J-R037	14		
61J-R038	14		
61J-R039	14		
61J-U027	14		
61J-U041	14		
61J-V026	14		
61J-V042	14		
61J-W096	14		

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve
SN60WRMAP-2-040	Solder

1. DESCRIPTION.

2. These connectors are straight twin conductor, crimp and solder type twines plugs. These connectors have a temperature range of -85° to +392°F. They are not repairable.

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this WP for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

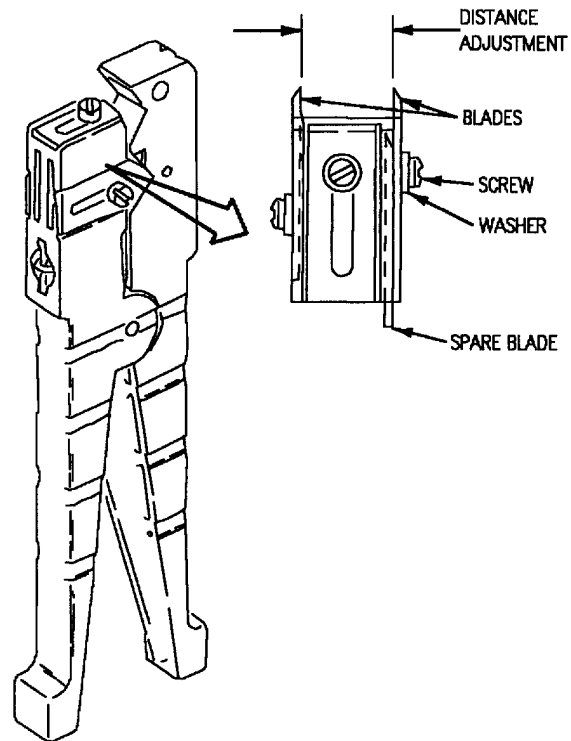
6. DISTANCE ADJUSTMENT.

- a. Measure distance between blades. See figure 1.
- b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- c. Install screws and tighten finger tight.
- d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

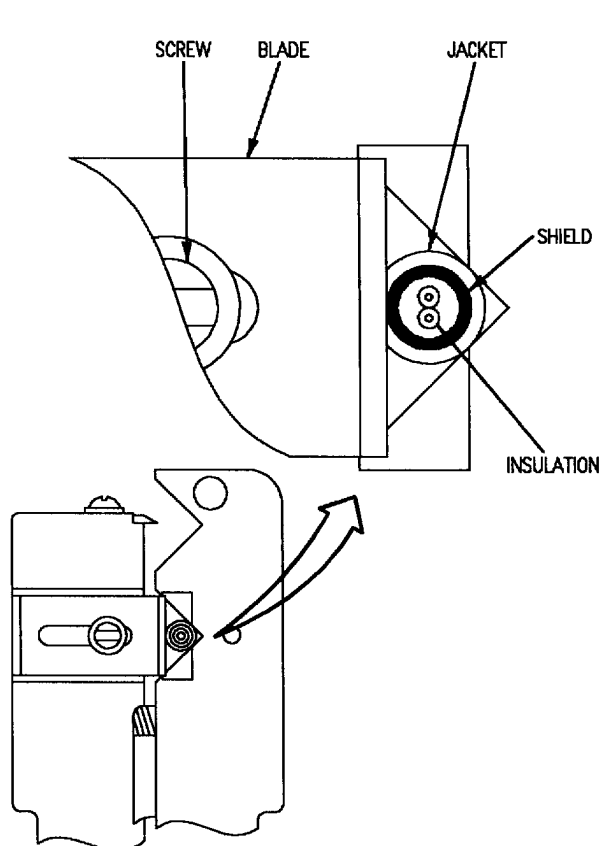
7. DEPTH OF CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through jacket without nicking shield and tighten screw.



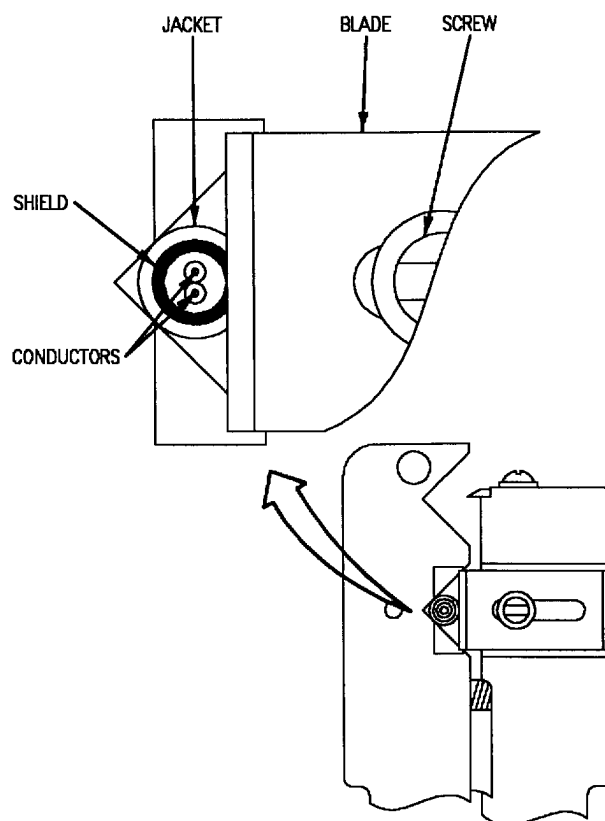
F/A-18-WRM-(561-1)01-SCAN

Figure 2. Jacket Cut Adjustment

c. Remove coaxial and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(562-1)01-CAT1

Figure 3. Shield Cut Adjustment

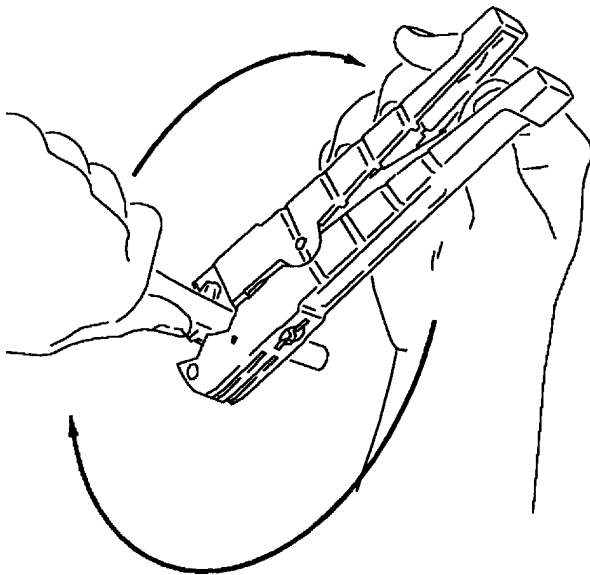
8. USE.

- a. Position stripper on cable so that blades face down. See figure 4.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

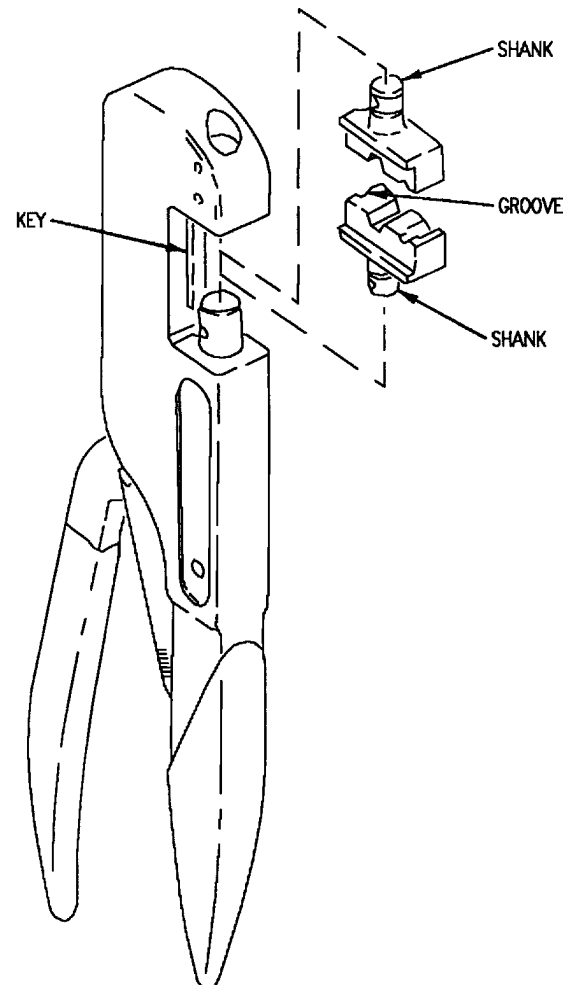
- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 4. Operation**9. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.****10. DIE INSTALLATION.**

- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 5.
- b. Close handle to make sure dies are seated and locked in place.

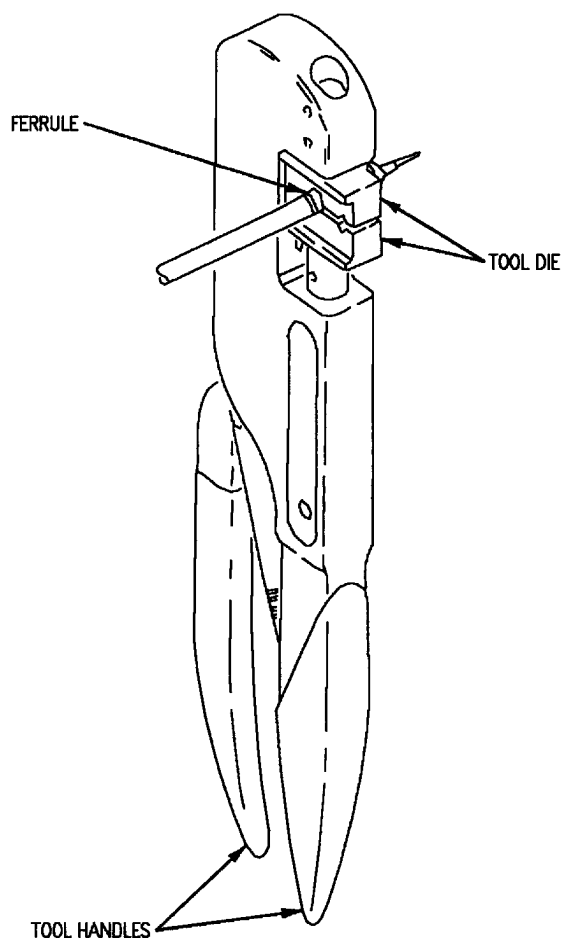


F/A-18-WRM-(410-2)01-SCAN

Figure 5. Die Installation

11. CRIMP PROCEDURE.

- a. Position crimping material in correct cavity of dies. See figure 6.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.

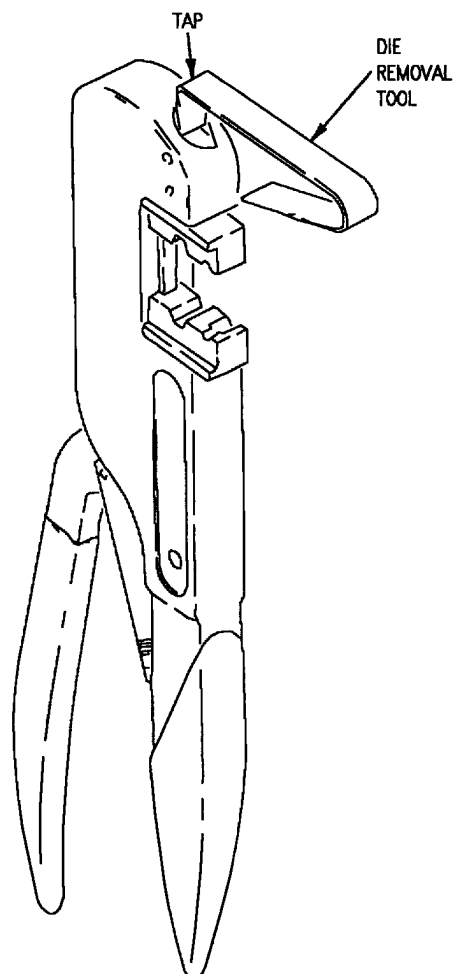


F/A-18-WRM-(410-1)01-SCAN

Figure 6. Crimping Operation**12. DIE REMOVAL.****NOTE**

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 7.

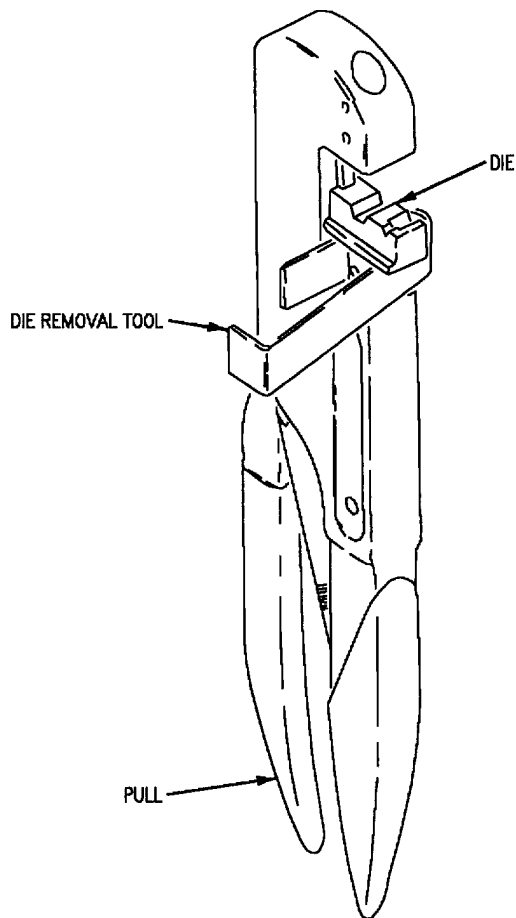


F/A-18-WRM-(410-3)01-SCAN

Figure 7. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 8.



F/A-18-WRM-(410-4)01-SCAN

Figure 8. Lower Die Removal

d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.

13. SOLDERING.

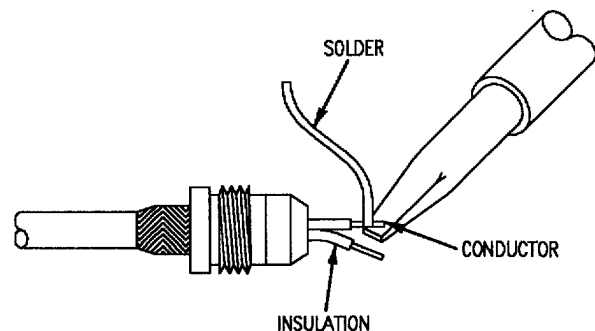
14. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

15. TINNING CONDUCTORS.

a. Clean and tin soldering iron.

b. Make sure conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder to conductor. Remove heat when solder flows into conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 9.

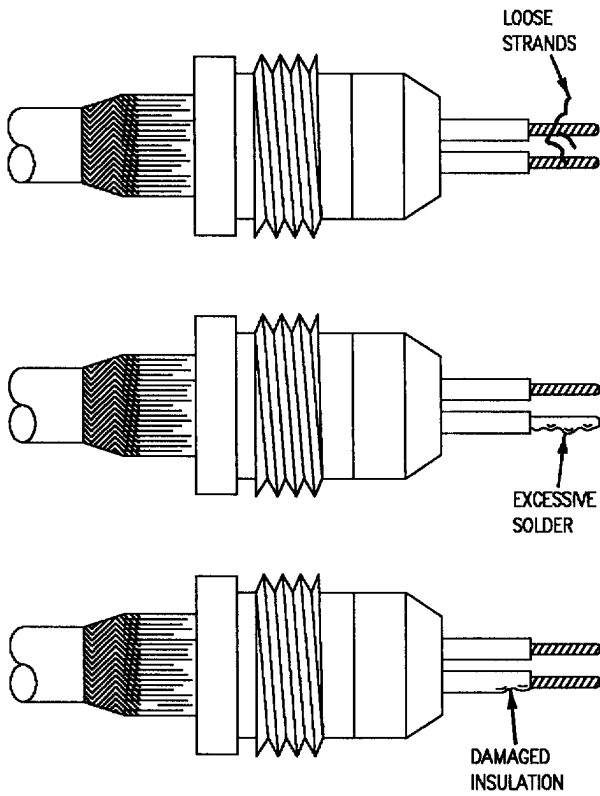


F/A-18-WRM-(563-1)01-CAT1

Figure 9. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 10.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged insulation.



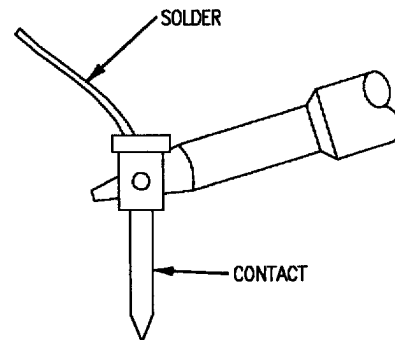
F/A-18-WRM-(564-1)01-CATI

Figure 10. Unacceptable Conditions After Tinning

16. SOLDERING CONTACT TO CONDUCTOR.

- a. Clean and tin soldering iron.

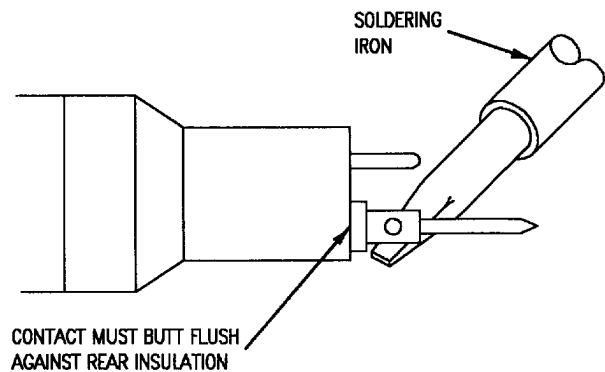
b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 11.



F/A-18-WRM-(565-1)01-CATI

Figure 11. Filling Solder Cup

c. Position contact on conductor and apply heat to solder cup. When solder melts, slide contact over conductor. Remove heat as soon as solder flows between conductor and contact. Hold cable and contact steady until solder hardens. See figure 12.

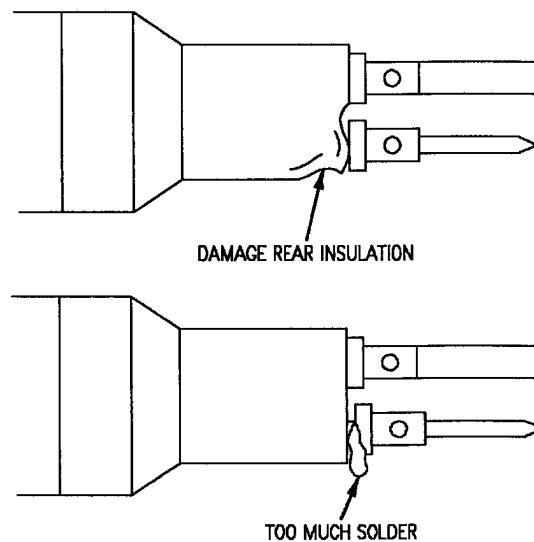


F/A-18-WRM-(565-1)01-CATI

Figure 12. Soldering Contact to Center Conductor

d. Inspect solder joint. Solder should be shiny and flow smoothly from conductor to contact. The below conditions are unacceptable. See figure 13.

- (1) Damaged insulator.
- (2) Too much solder.



F/A-18-WRM-(567-1)01-CAT1

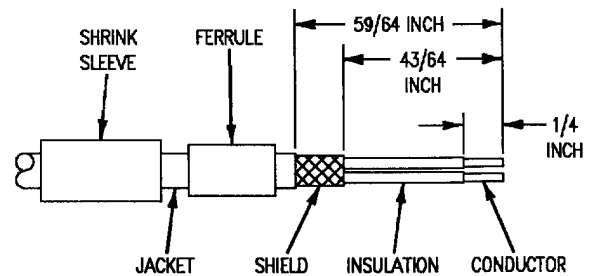
**Figure 13. Unacceptable
Conditions After Soldering Contact**



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

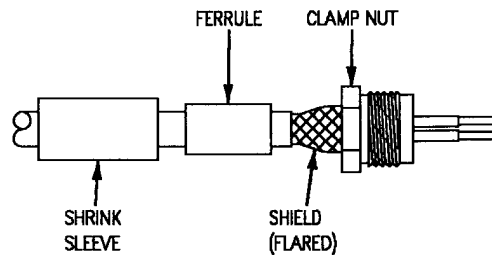
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

1. Using 45-123 wire cutters, cut end of cable square. Cut a length of shrink sleeve 3/8-inch longer than ferrule. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 1/4-inch between blades (see paragraph 5). Strip cable jacket 59/64-inch and shield 43/64-inch. Using sharp knife, remove 1/4-inch of insulation from each conductor.



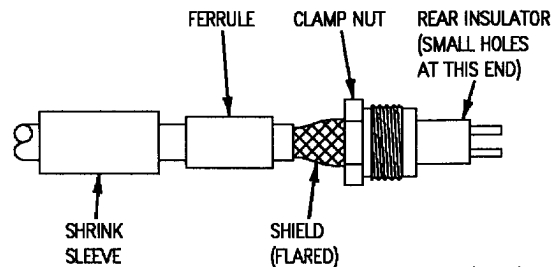
F/A-18-WRM-(237-1)02-CAT1

2. Slide clamp nut over conductors and under shield. Using W60-3 soldering iron, tin center conductors (see paragraph 15).



F/A-18-WRM-(237-2)02-CAT1

3. Install rear insulator over dielectric and against clamp nut.



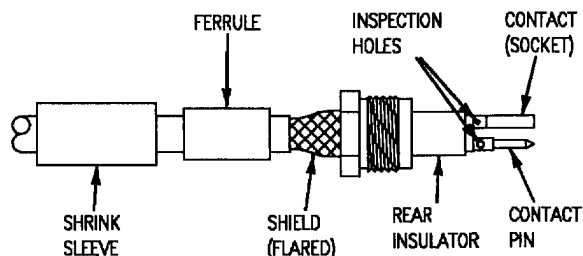
F/A-18-WRM-(249-1)02-CAT1

Figure 14. 31-33819-13, 5841-0904 and 5841-0905 Twinax Connector Repair (Sheet 1)



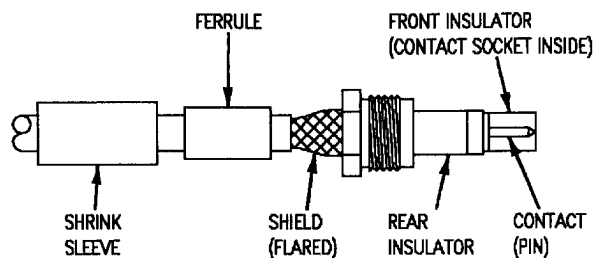
Make sure center conductor is visible in solder hole.

4. Install the contacts into rear insulator, butting contact shoulders against rear insulator. Using W60-3 soldering iron, solder contacts to applicable wire (see paragraph 16).



F/A-18-WRM-(249-2)02-CAT I

5. Slide front insulator on contacts so that the pin contact is exposed.



F/A-18-WRM-(249-3)02-CAT I

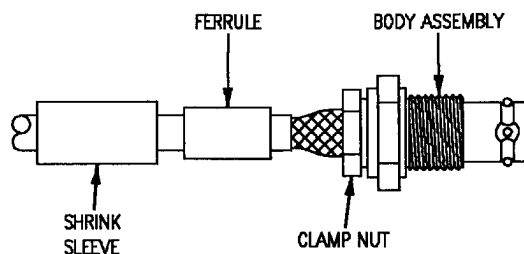
Figure 14. 31-33819-13, 5841-0904 and 5841-0905 Twinax Connector Repair
(Sheet 2)

6. Engage front insulator with insulator in body assembly and insert cable into body assembly.



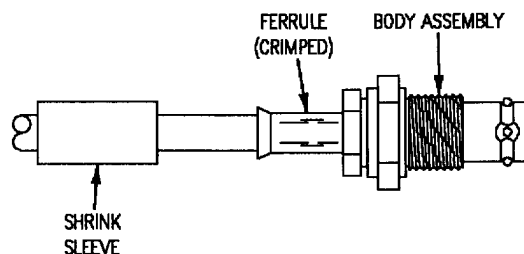
To prevent damage to connector, do not allow clamp nut or cable to rotate while tightening body assembly.

7. While holding clamp nut, screw body assembly on clamp nut. Using torque wrench torque body assembly 15 inch-pounds.



F/A-18-WRM-(249-4)02-CATI

8. Slide ferrule over shield until it butts against clamp nut. Using M22520/5-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in B cavity of die set (see paragraph 9).



F/A-18-WRM-(249-5)02-CATI

Figure 14. 31-33819-13, 5841-0904 and 5841-0905 Twinax Connector Repair
(Sheet 3)

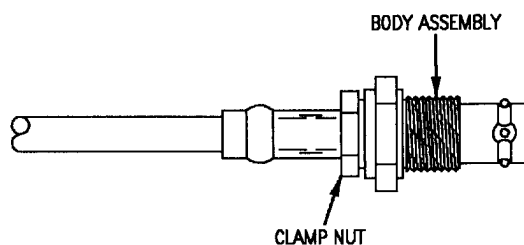
9. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

10. Shrink sleeve using heat tool and nitrogen servicing unit.



F/A-18-WRM-(249-6)02-CAT I

**Figure 14. 31-33819-13, 5841-0904 and 5841-0905 Twinax Connector Repair
(Sheet 4)**

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****4806-XXXX, 4811-XXXX, 4816-XXXX, 4841-XXXX and 4846-XXXX (MIL-C-39012) BNC TYPE TRIAX
CONNECTOR REPAIR**

Reference Material

Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number Index

Reference Designation	Figure No.
60J-A001C	17
60J-A001D	17
60J-H017	15
60J-H018	15
60P-A017	18
60P-A018	18
61J-J035	15
61J-J040	15
61P-D035	16
61P-D040	16
61P-F001C	16
61P-F001G	16

1. DESCRIPTION.

2. The BNC-type coaxial connector is a general purpose, threaded coupling connector used with coaxial cable. These connectors meet the requirements of MIL-C-39012.

Support Equipment Required

Part Number or Type Designation	Nomenclature
HT-900	Heat Tool
3308AS100	Repair Set - Wire and Connector
1317AS100-1	Nitrogen Servicing Unit - NAN-3

Materials Required

Specification or Part Number	Nomenclature
MS23053/5-XXX-0	Shrink Sleeve

3. PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

4. Refer to Reference Designation to Figure Number Index table within this work package for correct figure.

5. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

6. DISTANCE ADJUSTMENT.

a. Measure distance between blades. See figure 1.

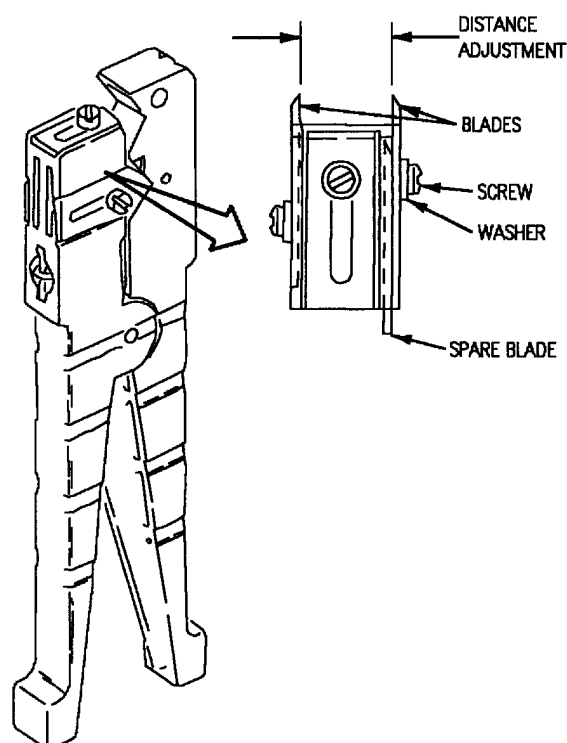
b. Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting one spare blade will change distance between blade 3/64-inch.

c. Install screws and tighten finger tight.

d. Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

Figure 1. Distance Adjustment

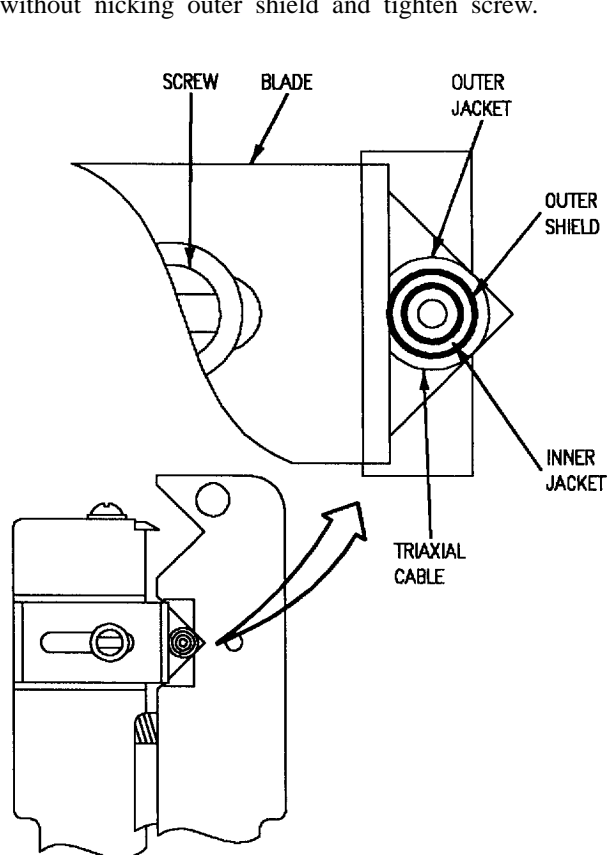
7. OUTER JACKET AND SHIELD CUT ADJUSTMENT.

NOTE

A test strip should be done on spare triax before stripping triax to be used.

a. Position coaxial cable in stripper until the end butts against the blade. See figure 2.

b. Adjust blade so it cuts through outer jacket without nicking outer shield and tighten screw.



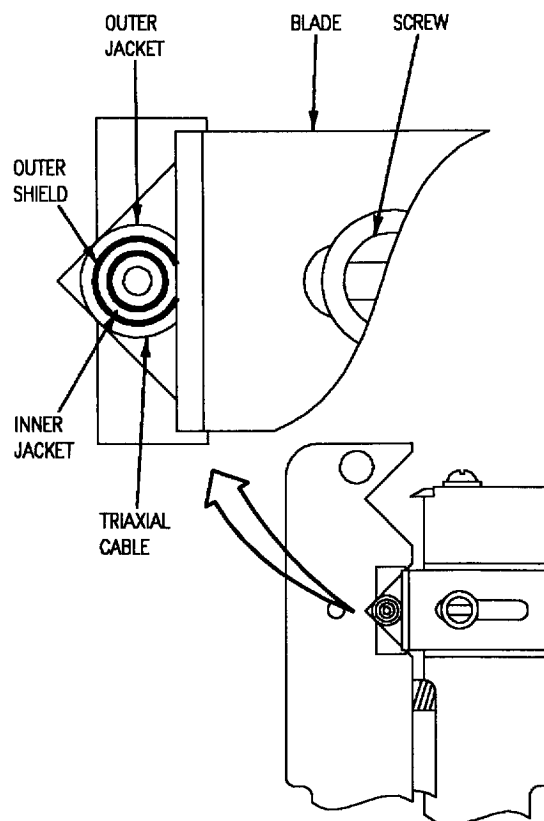
F/A-18-WRM-(568-1)01-CAT1

Figure 2. Outer Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 3.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If necessary, repeat steps 7a through 7d until blades cut through jacket and shield without damaging shield and dielectric.

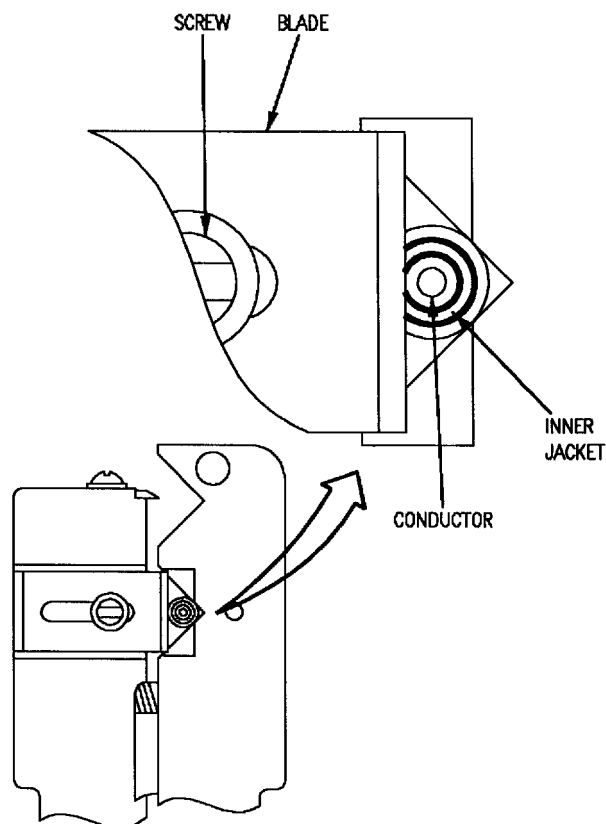


F/A-18-WRM-(569-1)01-CAT1

Figure 3. Outer Shield Cut Adjustment

8. INNER SHIELD CUT ADJUSTMENT.

- a. Position cable in stripper until the end butts against the blade. See figure 4.
- b. Adjust blade so it cuts through inner jacket without nicking conductor and tighten screw.
- c. Adjust other blade so it does not touch cable.



F/A-18-WRM-(570-1)01-CAT1

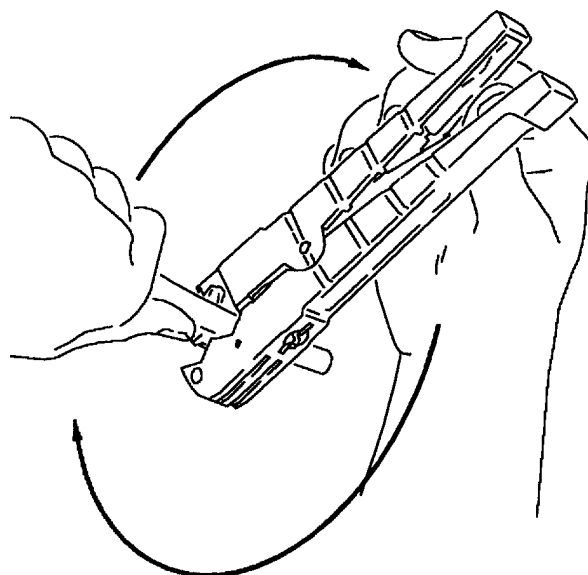
Figure 4. Inner Jacket Cut Adjustment**9. USE.**

- a. Position stripper on cable so that blades face down. See figure 5.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

- b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be necessary to finish cut.
- c. Remove stripper from cable.
- d. Remove stripped jacket and shield.



F/A-18-WRM-(409-1)01-SCAN

Figure 5. Operation

10. SOLDERING.

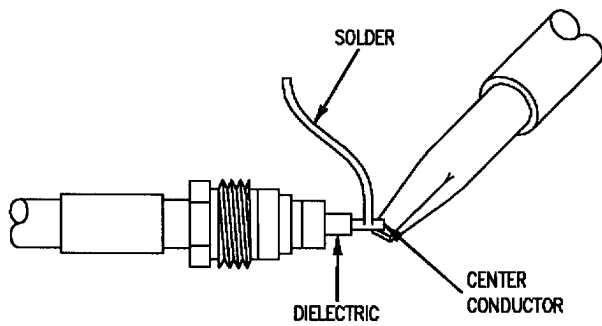
11. Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Excessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

12. TINNING CENTER CONDUCTOR.

a. Clean and tin soldering iron.

b. Make sure center conductor wires are twisted together in the same direction as the lay of wire.

c. Apply heat and solder flows into conductor. Remove heat when solder flows into center conductor. Apply only enough solder to join wires together. Individual wires should be coated with solder yet their shape visible. See figure 6.

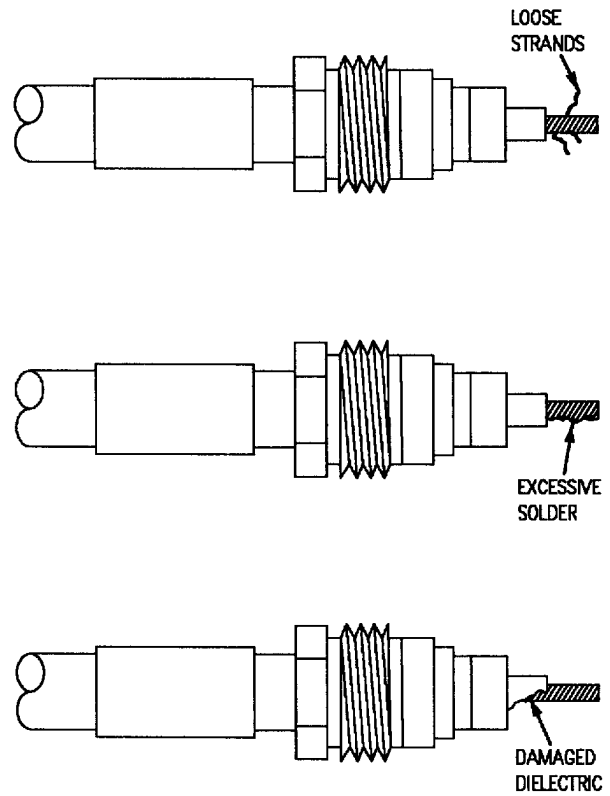


F/A-18-WRM-(572-1)01-CAT1

Figure 6. Tinning Center Conductor

d. The below conditions are unacceptable: See figure 7.

- (1) Individual wires not joined to center conductor.
- (2) Excessive solder.
- (3) Damaged dielectric.

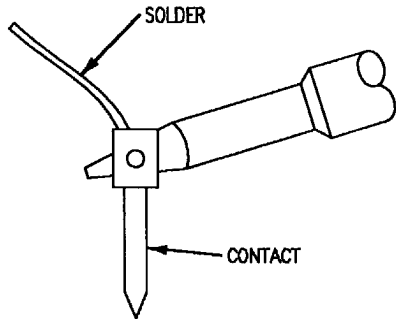


F/A-18-WRM-(573-1)01-CAT1

Figure 7. Unacceptable Conditions After Tinning

13. SOLDERING CONTACT TO CENTER CONDUCTOR.

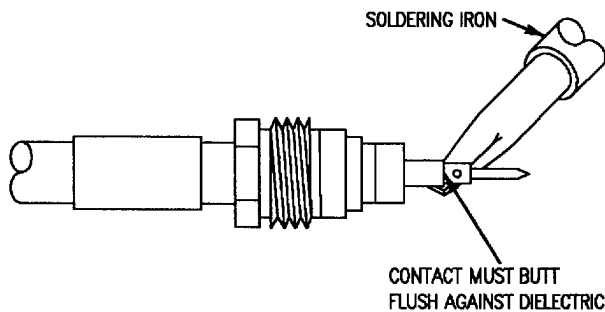
- a. Clean and tin soldering iron.
- b. Apply heat to contact solder cup and fill cup with solder. Avoid getting solder on outside of contact. See figure 8.



F/A-18-WRM-(574-1)01-CATI

Figure 8. Filling Solder Cup

- c. Position contact on center conductor and apply heat to solder cup. When solder melts, slide contact over center conductor. Remove heat as soon as solder flows between center conductor and contact. Hold cable and contact steady until solder hardens. See figure 9.



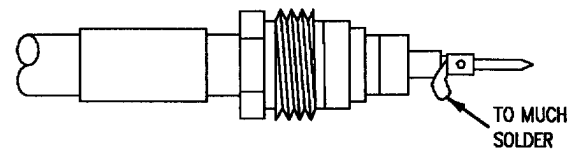
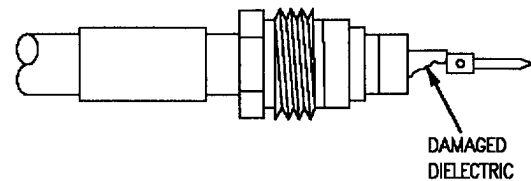
F/A-18-WRM-(575-)01-CATI

Figure 9. Soldering Contact to Center Conductor

- d. Inspect solder joint. Solder should be shiny and flow smoothly from center conductor to contact. The below conditions are unacceptable. See figure 10.

(1) Damaged dielectric.

(2) Too much solder.

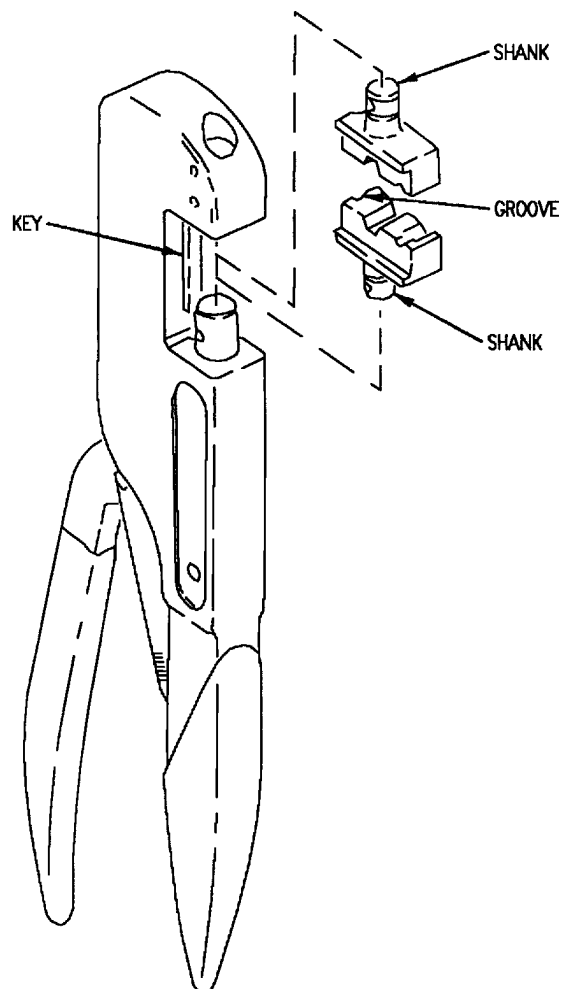


F/A-18-WRM-(576-1)01-CATI

Figure 10. Unacceptable Conditions After Soldering Contact

**14. CRIMP TOOL M22520/5-01
ASSEMBLY AND USE.****15. DIE INSTALLATION.**

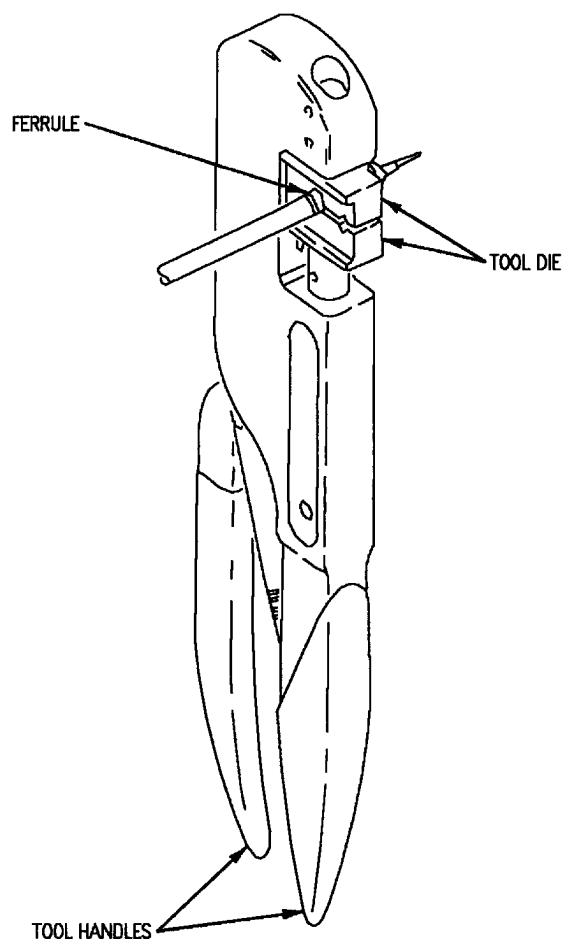
- a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 11.
- b. Close handle to make sure dies are seated and locked in place.



F/A-18-WRM-(410-2)01-SCAN

Figure 11. Die Installation**16. CRIMP PROCEDURE.**

- a. Position crimping material in correct cavity of dies. See figure 12.
- b. Squeeze tool handles until ratchet releases.
- c. Open handles and remove terminal and wire assembly and inspect crimp.



F/A-18-WRM-(410-1)01-SCAN

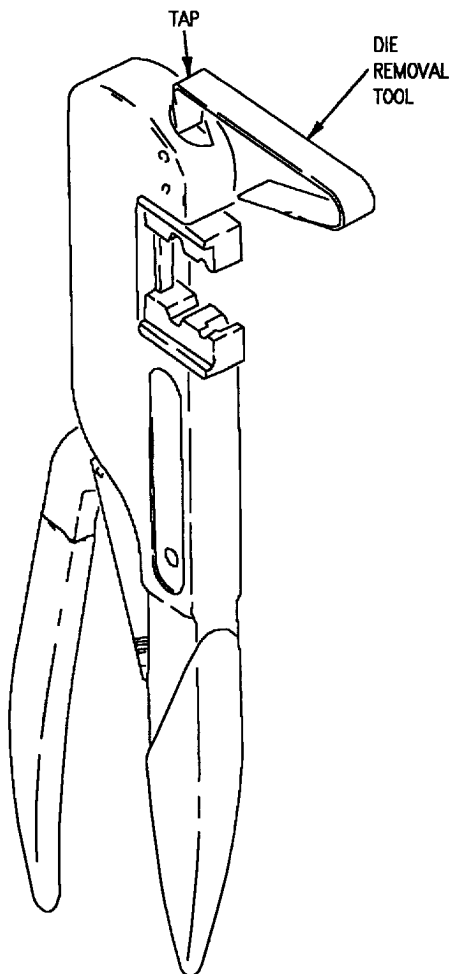
Figure 12. Crimping Operation

17. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

- a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 13.

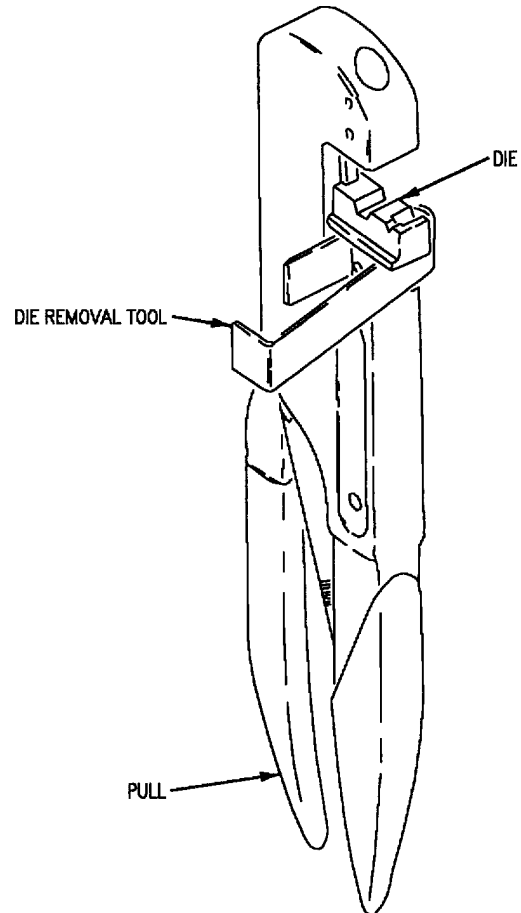


F/A-18-WRM-(410-3)01-SCAN

Figure 13. Upper Die Removal

- b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

- c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 14.



F/A-18-WRM-(410-4)01-SCAN

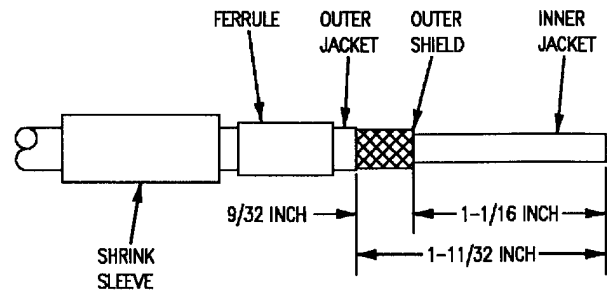
Figure 14. Lower Die Removal

- d. Pull handle open with a snap action. The die will be released from the lock spring and can then be removed by hand.



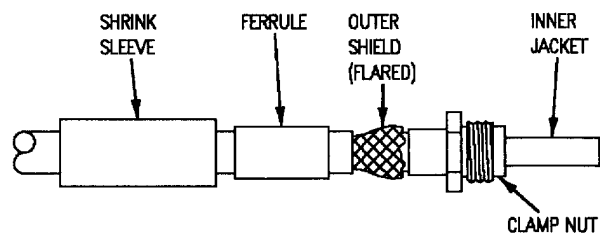
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip outer jacket 1-11/32 inch and outer shield 1-1/16 inch.



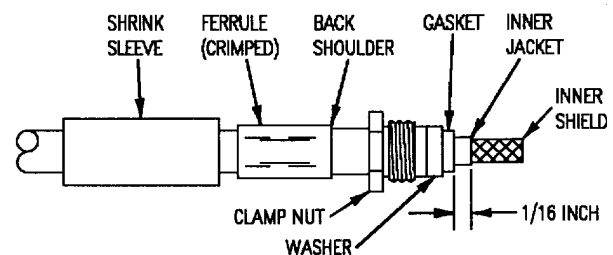
F/A-18-WRM-(279-1)02-CAT1

2. Slide clamp nut over inner jacket and under outer shield until shield butts against shoulder on clamp nut.



F/A-18-WRM-(234-1)02-CAT1

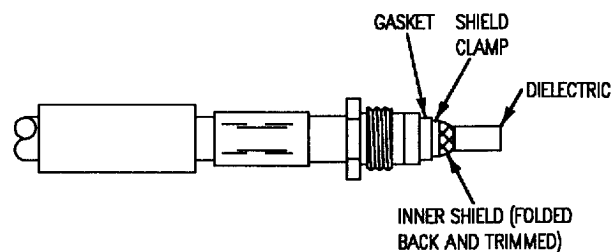
3. Slide ferrule forward over shield against back shoulder of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in "A" cavity of die set (see paragraph 14). Slide washer and gasket over inner jacket and against clamp nut, adjust cable stripper 45-163 for inner jacket (see paragraph 5). Strip all but 1/16-inch of inner jacket.



F/A-18-WRM-(234-2)02-CAT1

Figure 15. 4841-0903 and 4841-0905 Triaxial Connector Repair (Sheet 1)

4. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



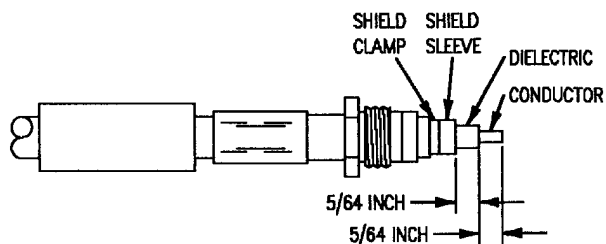
F/A-18-WRM-(279-4)02-CATI

5. Slide shield sleeve over dielectric and against shield clamp.



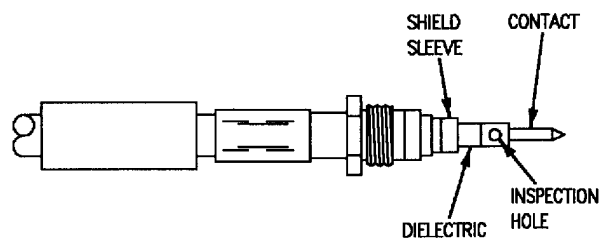
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

6. Using sharp knife, remove all but 5/64-inch of dielectric. Using 45-123 wire cutters cut center conductor to leave 5/64-inch. Using W60-3 soldering iron, tin center conductor (see paragraph 12).



F/A-18-WRM-(279-5)02-CATI

7. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



F/A-18-WRM-(279-8)02-CATI

Figure 15. 4841-0903 and 4841-0905 Triaxial Connector Repair (Sheet 2)

8. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

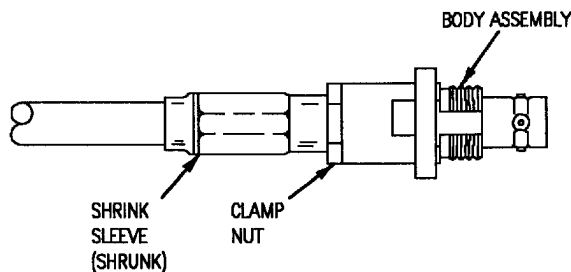
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

9. Shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent damage to connectors, rotate body assembly only when assembled.

10. While holding hex nut, screw body assembly onto hex nut. Using torque wrench torque body assembly 13 to 18 inch-pounds.



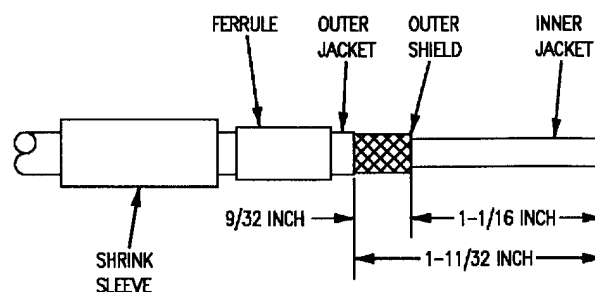
F/A-18-WRM-(234-3)02-CATI

Figure 15. 4841-0903 and 4841-0905 Triaxial Connector Repair (Sheet 3)

CAUTION

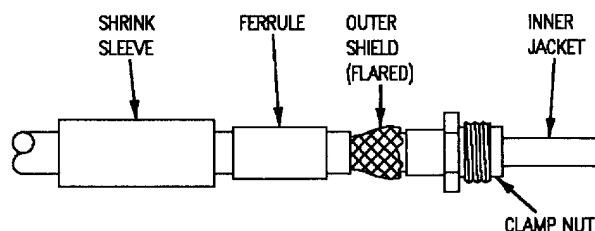
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters cut end of cable square. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip outer jacket 1-11/32 inch and outer shield 1-1/16 inch.



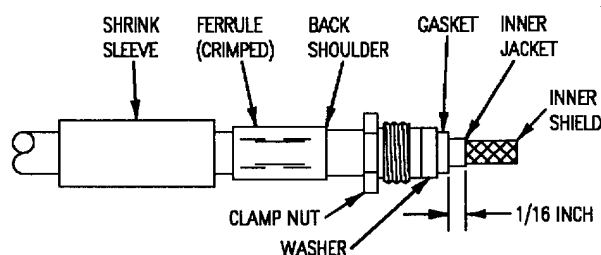
F/A-18-WRM-(279-1)02-CATI

2. Slide clamp nut over inner jacket and under outer shield until shield butts against shoulder on clamp nut.



F/A-18-WRM-(234-1)02-CATI

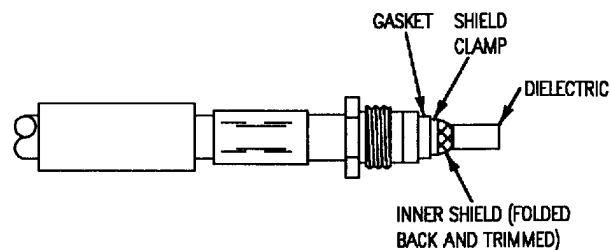
3. Slide ferrule forward over shield against back shoulder of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in "A" cavity of die set (see paragraph 14). Slide washer and gasket over inner jacket and against clamp nut, adjust cable stripper 45-163 for inner jacket (see paragraph 5). Strip all but 1/16-inch of inner jacket.



F/A-18-WRM-(234-2)02-CATI

**Figure 16. 4811-0903, 4811-0905, 4816-0903 and 4816-0905
Triaxial Connector Repair (Sheet 1)**

4. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



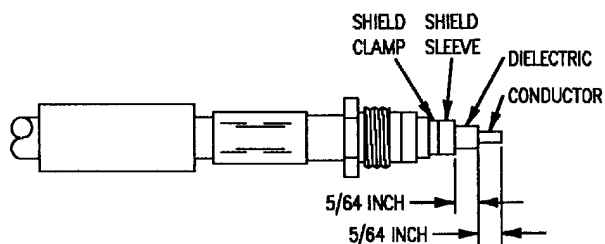
F/A-18-WRM-(279-4)02-CAT1

5. Slide shield sleeve over dielectric and against shield assembly.



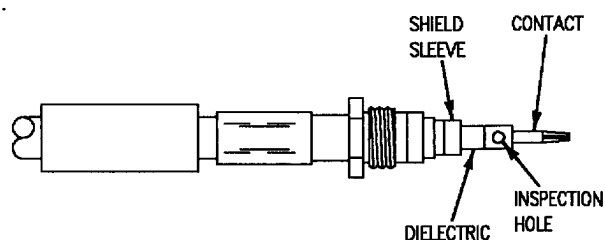
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

6. Using sharp knife, remove all but 5/64-inch of dielectric. Using 45-123 wire cutters cut center conductor to leave 5/64-inch. Using W60-3 soldering iron, tin center conductor (see paragraph 12).



F/A-18-WRM-(279-5)02-CAT1

7. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



F/A-18-WRM-(233-1)02-CAT1

**Figure 16. 4811-0903, 4811-0905, 4816-0903 and 4816-0905
Triaxial Connector Repair (Sheet 2)**

8. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

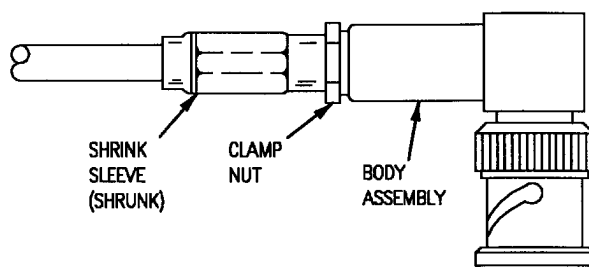
Use of nitrogen with heat tool in an enclosed area is hazardous. discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

9. shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent damage to connectors, rotate body assembly only when assembled.

10. While holding hex nut, screw body assembly onto hex nut. Using torque wrench torque body assembly 13 to 18 inch-pounds.



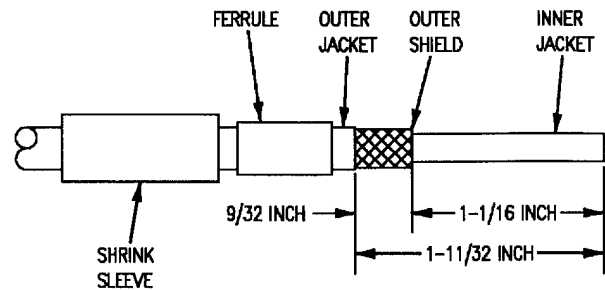
F/A-18-WRM-(233-2)02-CATI

**Figure 16. 4811-0903, 4811-0905, 4816-0903 and 4816-0905
Triaxial Connector Repair (Sheet 3)**



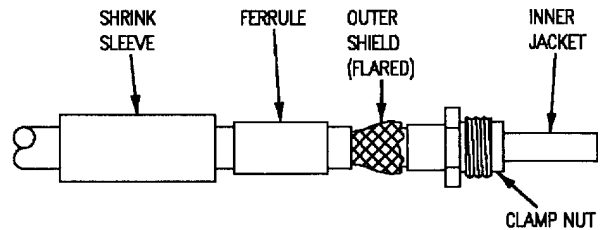
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip outer jacket 1-11/32 inch and outer shield 1-1/16 inch.



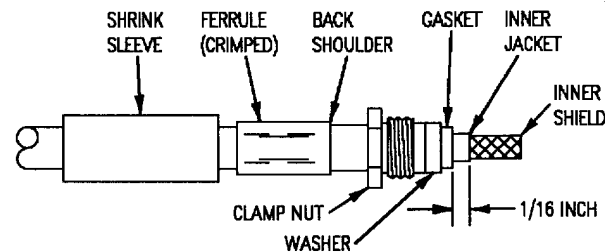
F/A-18-WRM-(279-1)02-CATI

2. Slide clamp nut over inner jacket and under outer shield until shield butts against shoulder on clamp nut.



F/A-18-WRM-(234-1)02-CATI

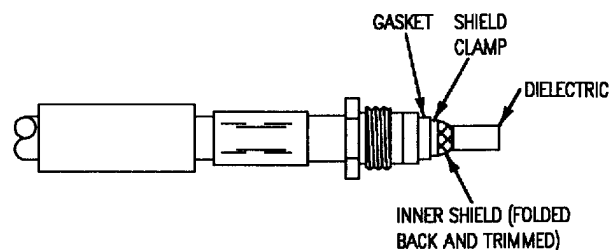
3. Slide ferrule forward over shield against back shoulder of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in "A" cavity of die set (see paragraph 14). Slide washer and gasket over inner jacket and against clamp nut, adjust cable stripper 45-163 for inner jacket (see paragraph 5). Strip all but 1/16-inch of inner jacket.



F/A-18-WRM-(234-2)02-CATI

Figure 17. 4846-0903 and 4846-0905 Triaxial Connector Repair (Sheet 1)

4. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



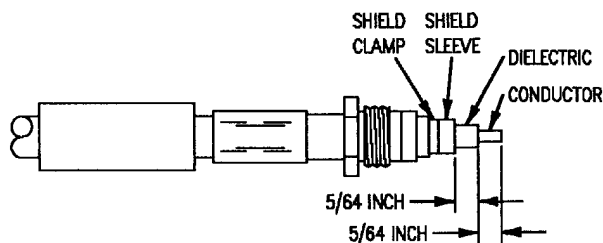
F/A-18-WRM-(279-4)02-CAT1

5. Slide shield sleeve over dielectric and against shield clamp.



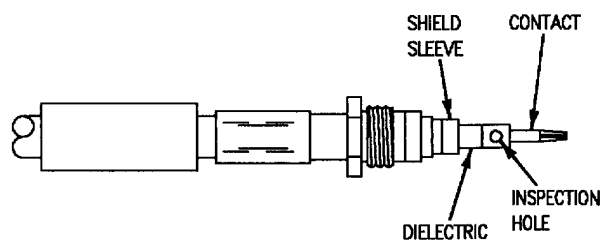
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

6. Using sharp knife, remove all but 5/64-inch of dielectric. Using 45-123 wire cutters cut center conductor to leave 5/64-inch. Using W60-3 soldering iron, tin center conductor (see paragraph 12).



F/A-18-WRM-(279-5)02-CAT1

7. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



F/A-18-WRM-(233-1)02-CAT1

Figure 17. 4846-0903 and 4846-0905 Triaxial Connector Repair (Sheet 2)

8. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

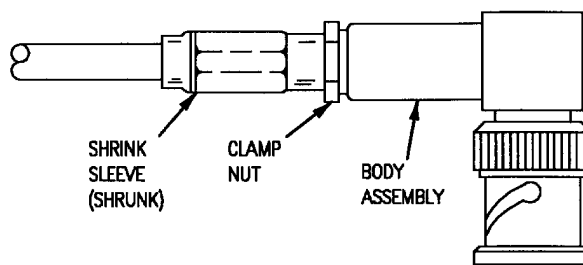
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

9. Shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent damage to connectors, rotate body assembly only when assembled.

10. While holding hex nut, screw body assembly onto hex nut. Using torque wrench torque body assembly 13 to 18 inch-pounds.



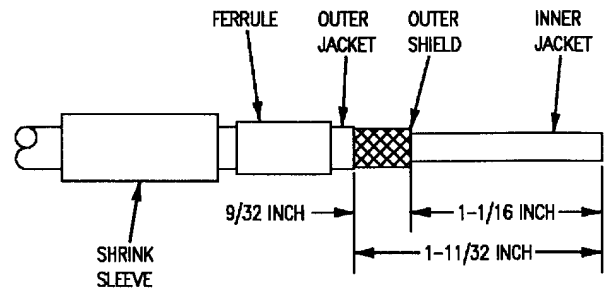
F/A-18-WRM-(233-2)02-CATI

Figure 17. 4846-0903 and 4846-0905 Triaxial Connector Repair (Sheet 3)



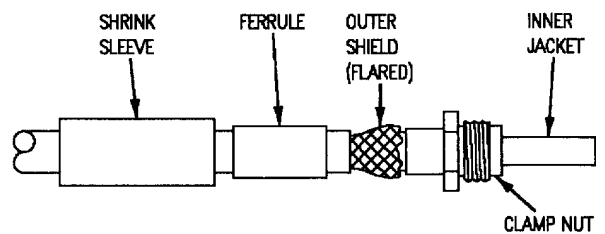
To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

1. Using 45-123 wire cutters, cut end of cable square. Slide shrink sleeve and ferrule over cable. Adjust cable stripper 45-163 for cable with 9/32-inch between blades (see paragraph 5). Strip outer jacket 1-11/32 inch and outer shield 1-1/16 inch.



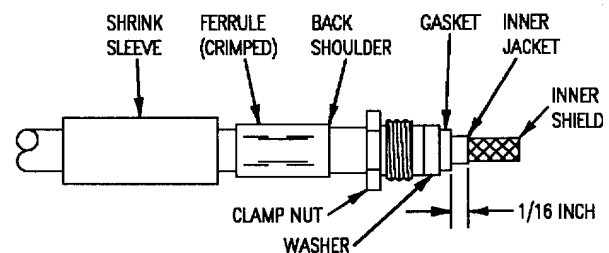
F/A-18-WRM-(279-1)02-CAT1

2. Slide clamp nut over inner jacket and under outer shield until shield butts against shoulder on clamp nut.



F/A-18-WRM-(234-1)02-CAT1

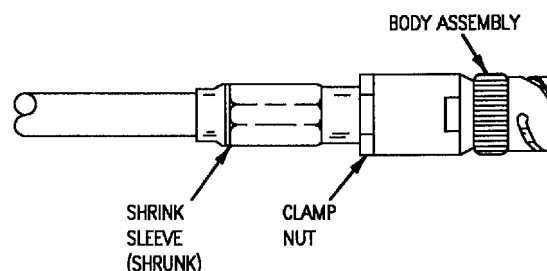
3. Slide ferrule forward over shield against back shoulder of clamp nut. Using M22520/05-19 die set and M22520/5-01 crimping tool frame, crimp ferrule in "A" cavity of die set (see paragraph 14). Slide washer and gasket over inner jacket and against clamp nut, adjust cable stripper 45-163 for inner jacket (see paragraph 5). Strip all but 1/16-inch of inner jacket.



F/A-18-WRM-(234-2)02-CAT1

Figure 18. 4816-0903 and 4806-0905 Triaxial Connector Repair (Sheet 1)

4. Slide shield clamp over inner jacket with flat side against gasket. Fold shield back and trim even with edge of shield clamp.



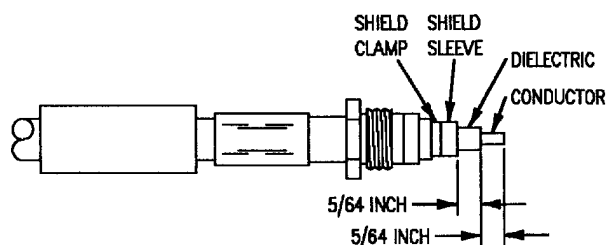
F/A-18-WRM-(234-4)02-CAT1

5. Slide shield sleeve over dielectric and against shield clamp.



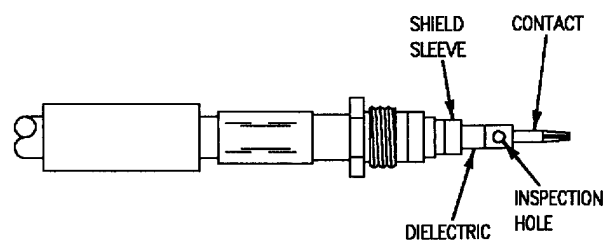
To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

6. Using sharp knife, remove all but 5/64-inch of dielectric. Using 45-123 wire cutters cut center conductor to leave 5/64-inch. Using W60-3 soldering iron, tin center conductor (see paragraph 12).



F/A-18-WRM-(279-5)02-CAT1

7. Using W60-3 soldering iron, solder contact to conductor (see paragraph 13).



F/A-18-WRM-(233-1)02-CAT1

Figure 18. 4806-0903 and 4806-0905 Triaxial Connector Repair (Sheet 2)

8. Slide shrink sleeve over ferrule until it butts against clamp nut.

WARNING

To prevent death or injury to personnel, conventional hot air guns must not be used on fueled aircraft. Exposed heating elements may cause fire or explosion.

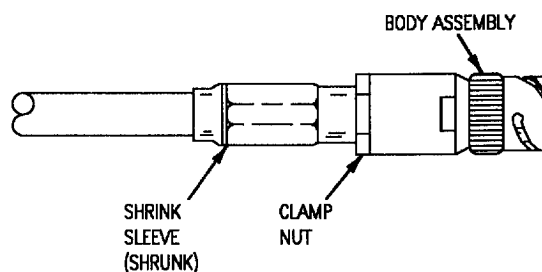
Use of nitrogen with heat tool in an enclosed area is hazardous. Discharge of nitrogen into a poorly ventilated area such as wheel wells, stand-up bays, or crew stations can result in asphyxiation.

9. Shrink sleeve using heat tool and nitrogen servicing unit.

CAUTION

To prevent damage to connectors, rotate body assembly only when assembled.

10. While holding hex nut, screw body assembly onto hex nut. Using torque wrench torque body assembly 13 to 18 inch-pounds.



F/A-18-WRM-(234-4)02-CAT1

Figure 18. 4806-0903 and 4806-0905 Triaxial Connector Repair (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****BJ8-12EXX-XXX (MIL-C-83723 SERIES 3)****WITH TAPE WRAPPED THERMAL BARRIER PROTECTIVE BOOT INSTALLATION CONNECTOR REPAIR**

Reference Material

Avionics Cleaning and Corrosion Prevention Control	NAVAIR 16-1-540
Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

52P-S055A	51
52P-S055B	51
52P-S055C	50
52P-T056A	51
52P-T056B	51
52P-T056C	50

Unwired connector cavities shall have a sealing plug installed to prevent water intrusion.

Support Equipment Required

Part Number or
Type Designation

Nomenclature

3308AS100	Repair Set-Wire and Connector
CM-837-12-A	Adapter Tool
CM-837-18-A	Adapter Tool

1. DESCRIPTION.

2. The MIL-C-83723, Series 3, electrical connectors are threaded coupling, self-locking, circular environmental resistant connectors, with rear release contacts. The Series 3 connector has a 50 percent scoop-proof design.

3. Each connector part number is supported by an illustration which represents the contact arrangement, a reference designation list and tables containing tooling and parts data.

Materials Required

Specification
or Part Number

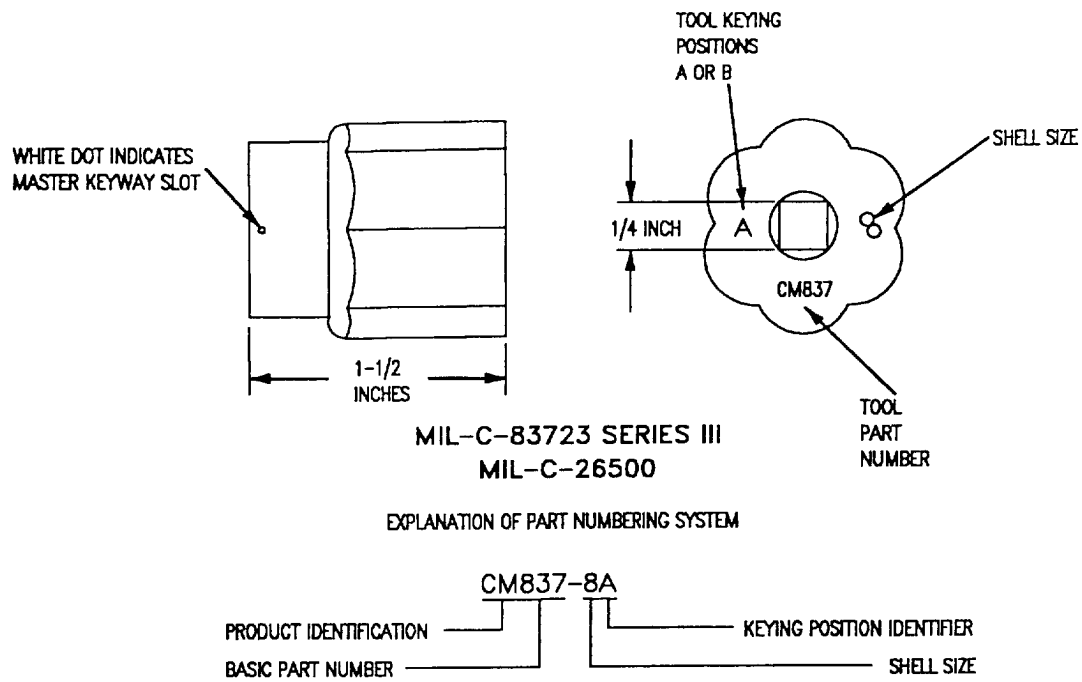
Nomenclature

See Table 1	Teflon Barrier Tape
See Table 2	Reinforced Silicone Rubber Tape
See Table 3	Wire Mesh Tape
See Table 4	Hot Spotz Tape
See Table 5	Permacel Tape
TT-I-735 Grade B	Isopropyl Alcohol
SN60WRMAP2-0-040	Solder
MIL-T-43435TYPE-4 SIZE-3FINISH-D	Tape, Lacing
SR-98	Silicone Varnish
MMS 409	Compound, Cleaning

4. **PROCEDURE.**

5. **CM ADAPTER TOOLS.** CM adapter tool is shown in figure 1. Select tool part number to shell

size from tool data in reference designation to back-shell data index for specific cable clamp.



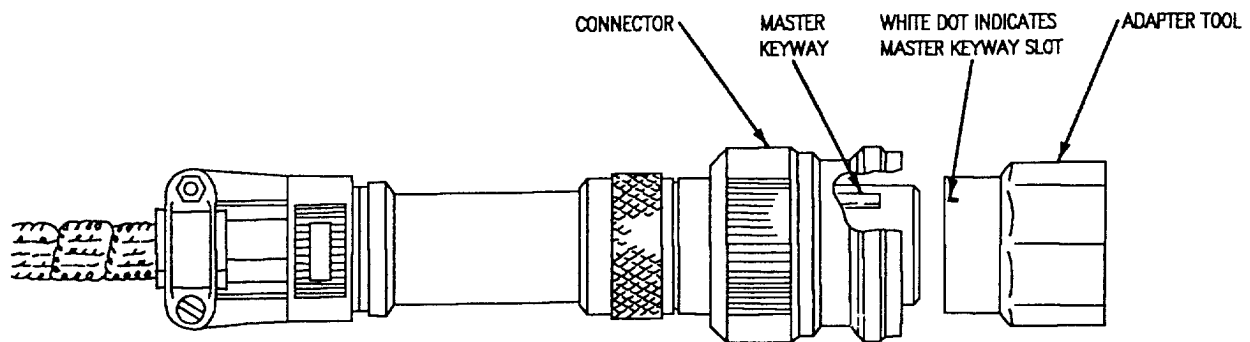
F/A-18-WRM-00-(W150-36)02-SCAN

Figure 1. CM Adapter Tool Part Numbering System



White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

- a. Mate adapter tool to connector. See figure 2.



F/A-18-WRM-00-(W150-37)01-SCAN

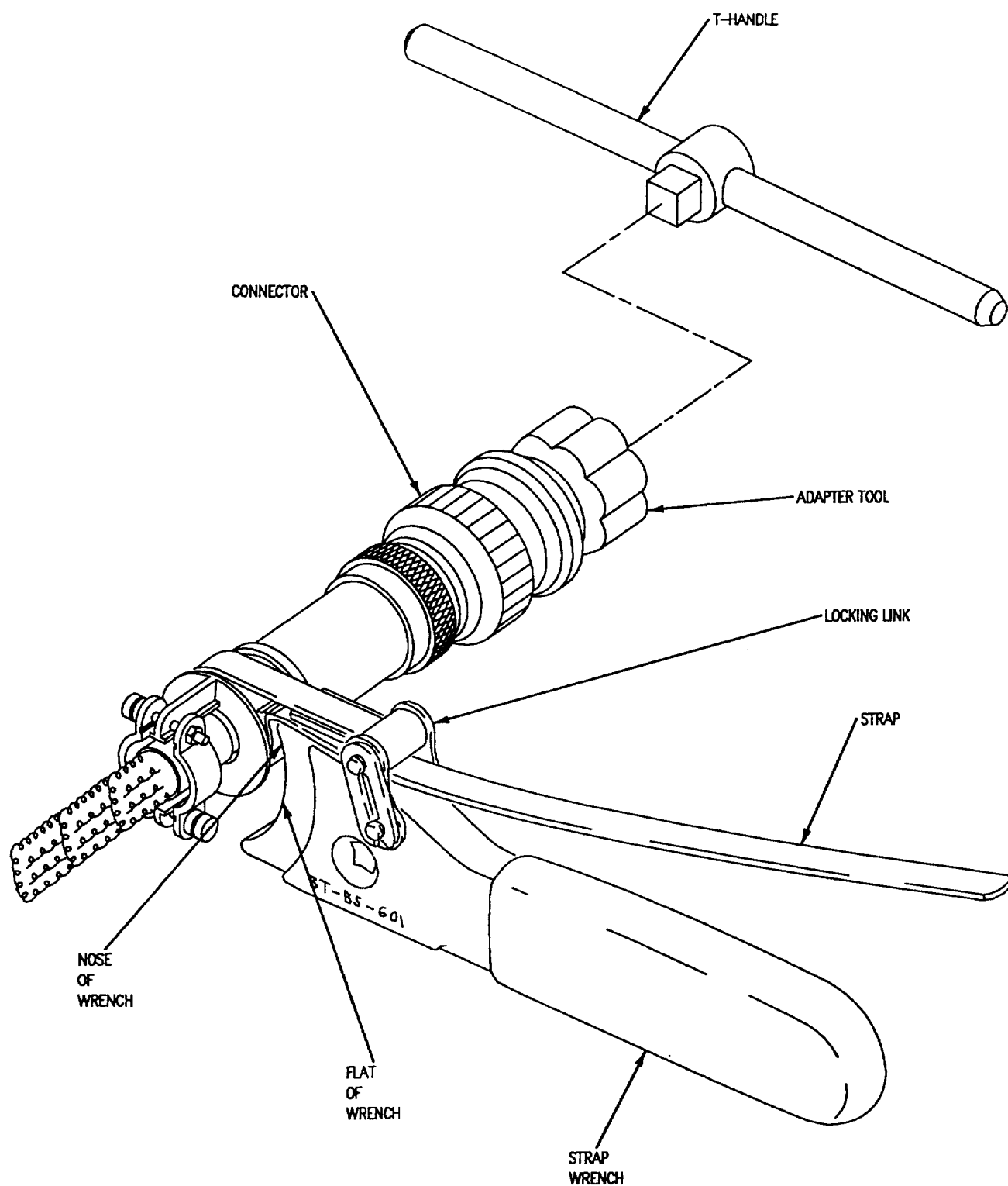
Figure 2. Adapter Tool Mating

6. STRAP WRENCH.

- a. Install the strap around part to be tightened or loosened. Draw the strap tight and through the locking link so the cable clamp and strap rests on nose of wrench. See figure 3.

NOTE

T-Handle can be used for additional gripping force to adapter if required.

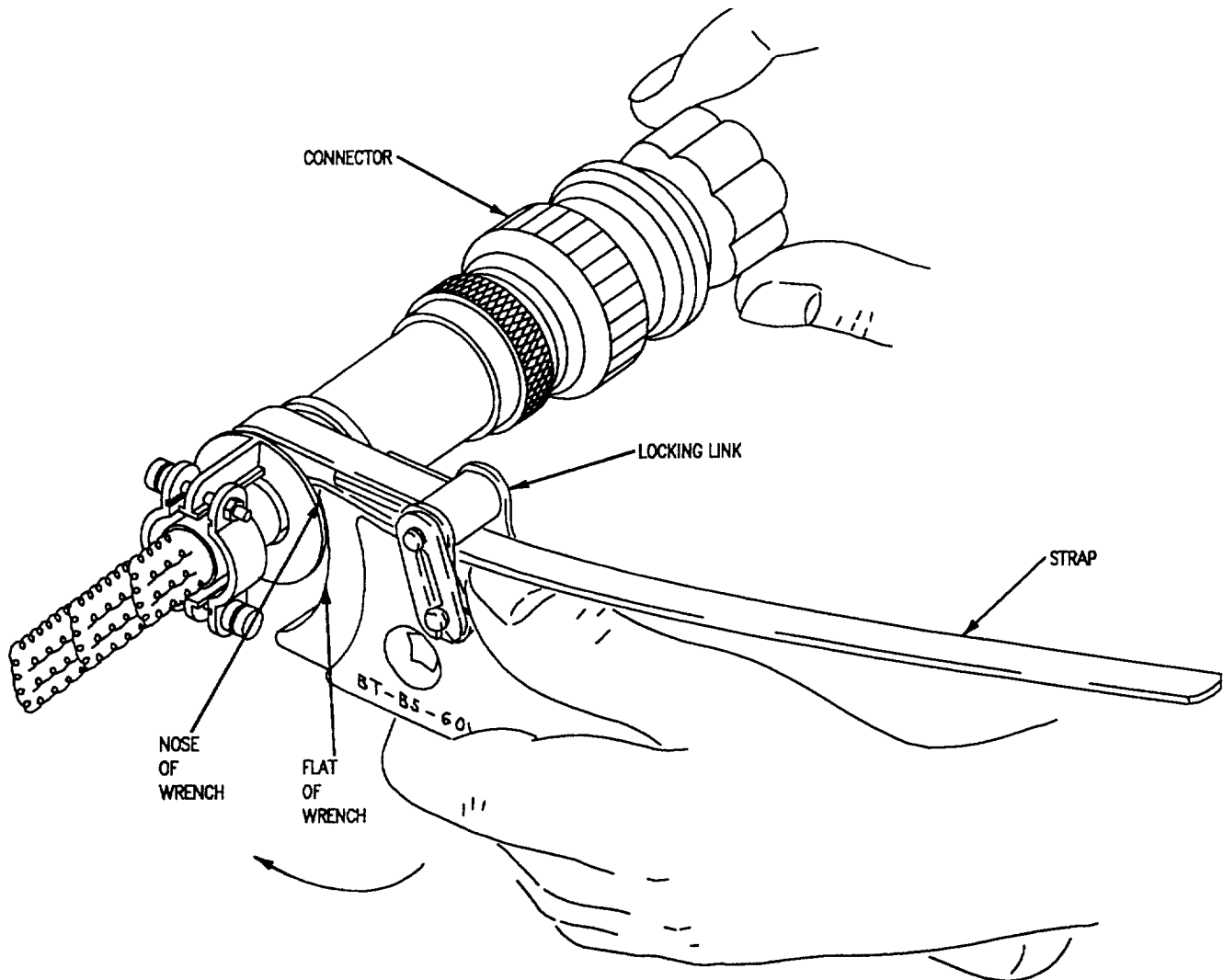


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Figure 3. Strap Wrench Setup and Adjustment

b. To tighten clamp, apply force in a clockwise direction as viewed from the rear of the connector.

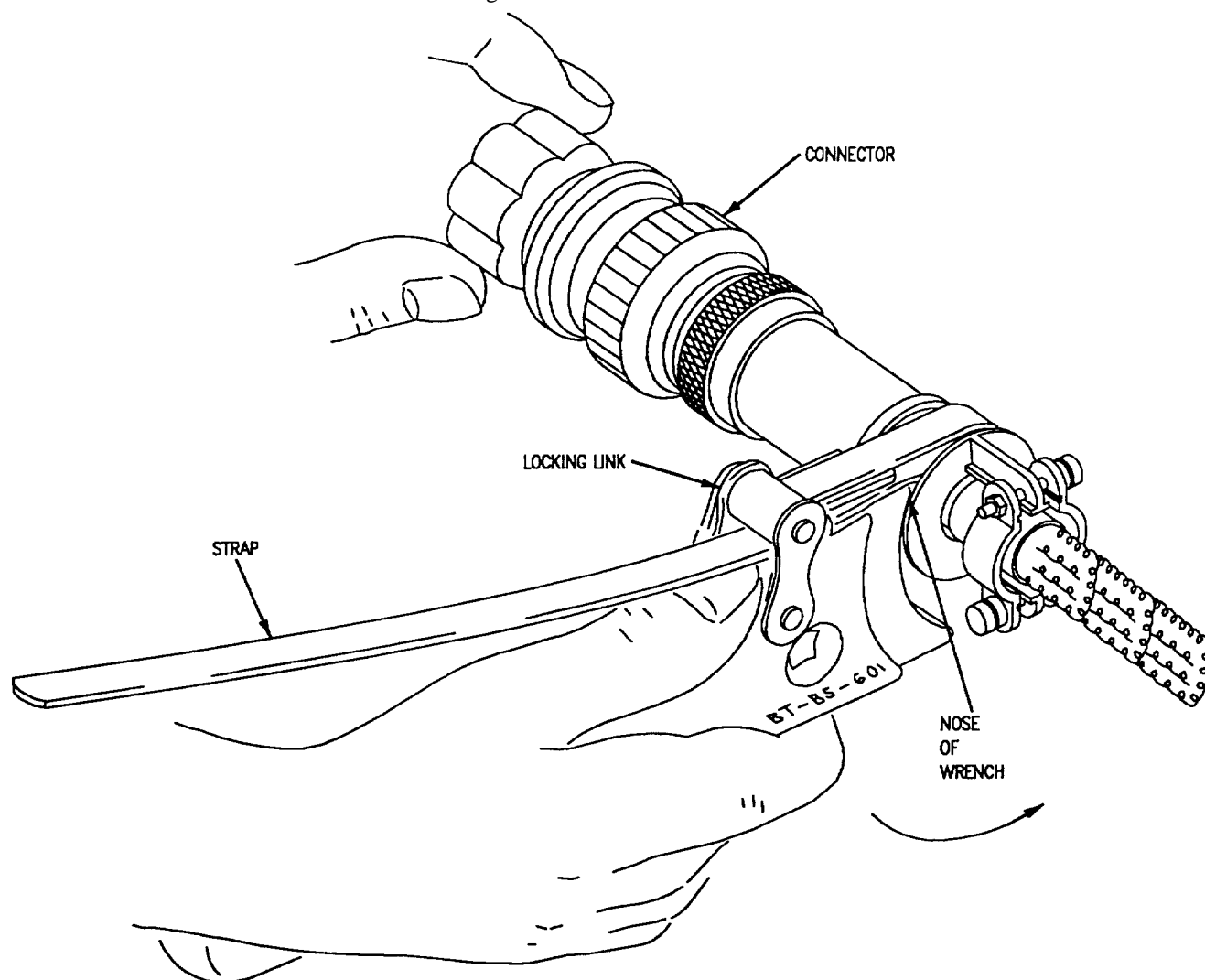
The clamp and strap are tucked beneath the nose of the wrench and against the flat. See figure 4.



F/A18-WRM-(W150-39)01-SCAN

Figure 4. Tightening Position of Wrench

c. To loosen clamp, turn counterclockwise as viewed from the rear of the connector. See figure 5.



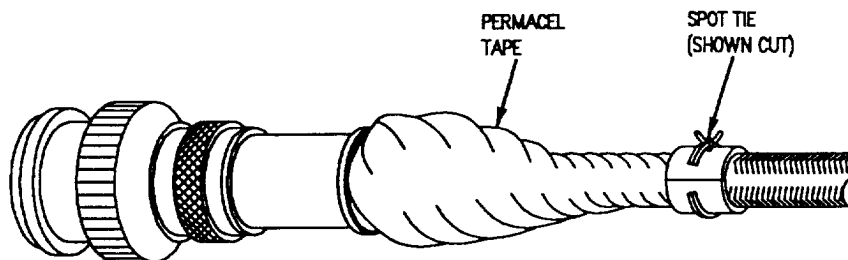
F/A18-WRM-(W150-40)01-SCAN

Figure 5. Loosening Position of Wrench

**7. BACKSHELL DISASSEMBLY
PROCEDURE.**

When cutting boot material with sharp tool, extreme care must be taken not to nick or scrape the wire insulation beneath the cut.

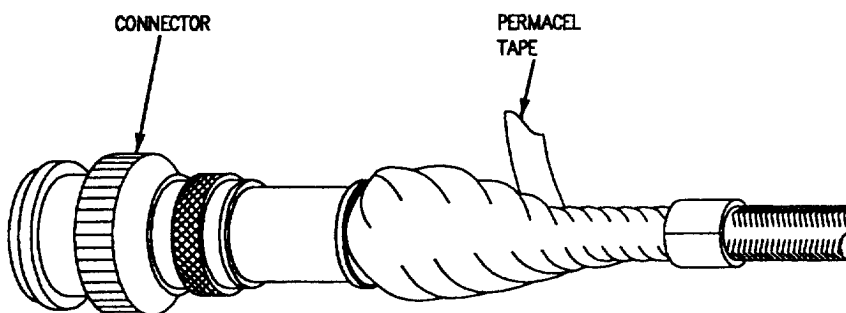
- a. Cut spot tie from permacel tape boot. See figure 6.



F/A-18-WRM-(W150-41)01-CATI

Figure 6. Spot Tie Removal

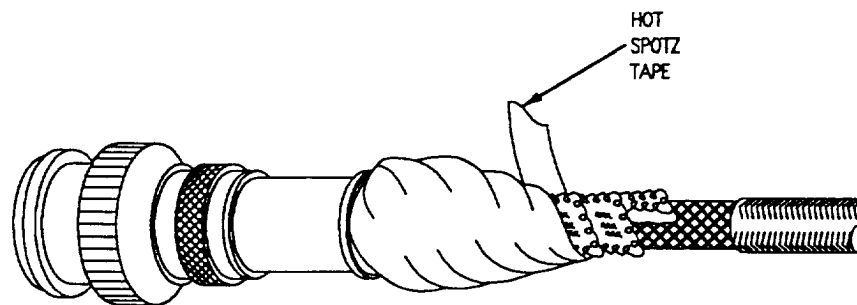
- b. Unwrap or cut permacel tape and remove from the boot area. See figure 7.



F/A-18-WRM-(W150-42)01-CATI

Figure 7. Permactel Tape Boot Removal

c. Unwrap or cut hot spotz tape and remove from the boot area. See figure 8.



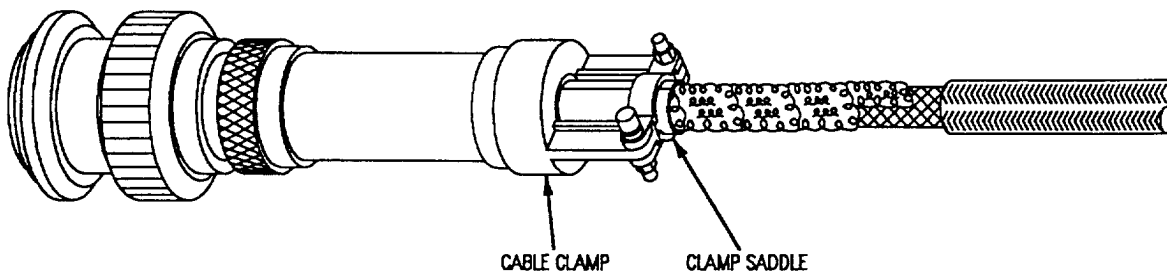
F/A-18-WRM-(W150-43)01-CAT1

Figure 8. Hot spotz Tape Removal

NOTE

Screw backshell parts in a counterclockwise direction as viewed from rear of connector.

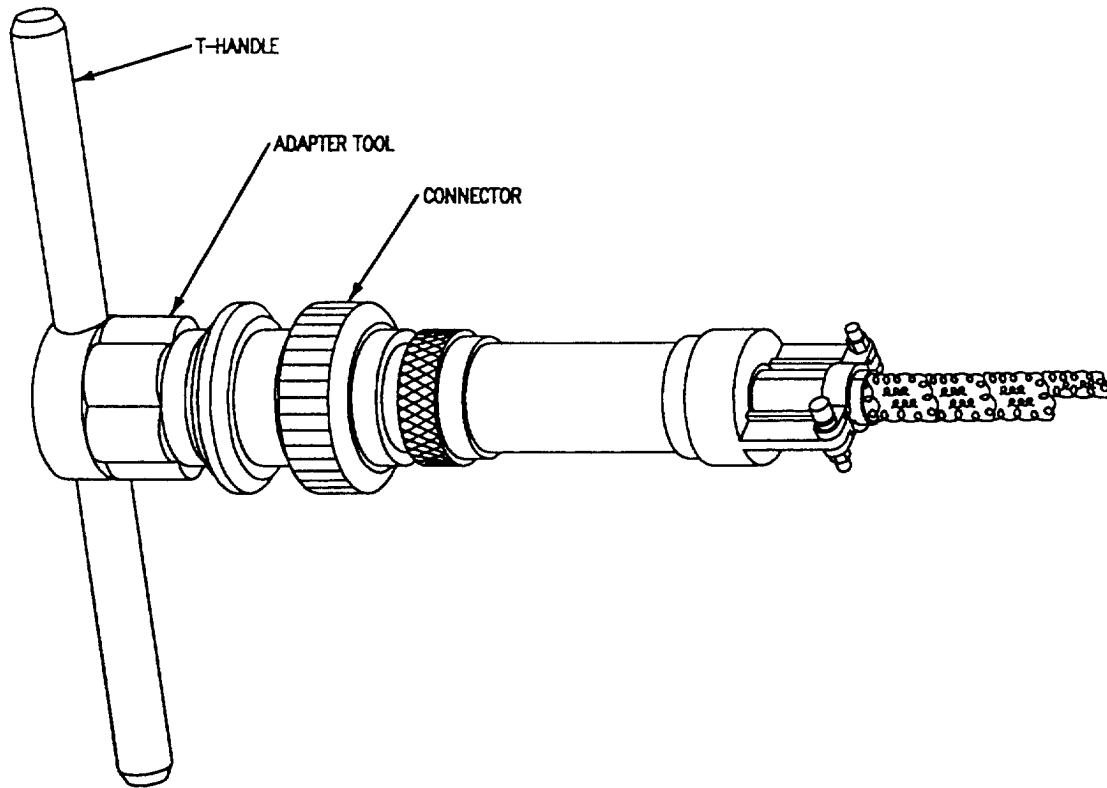
d. Loosen screws on clamp assembly. See figure 9.



F/A-18-WRM-(W150-1)01-CAT1

Figure 9. Loosening Screws on Saddle Clamp

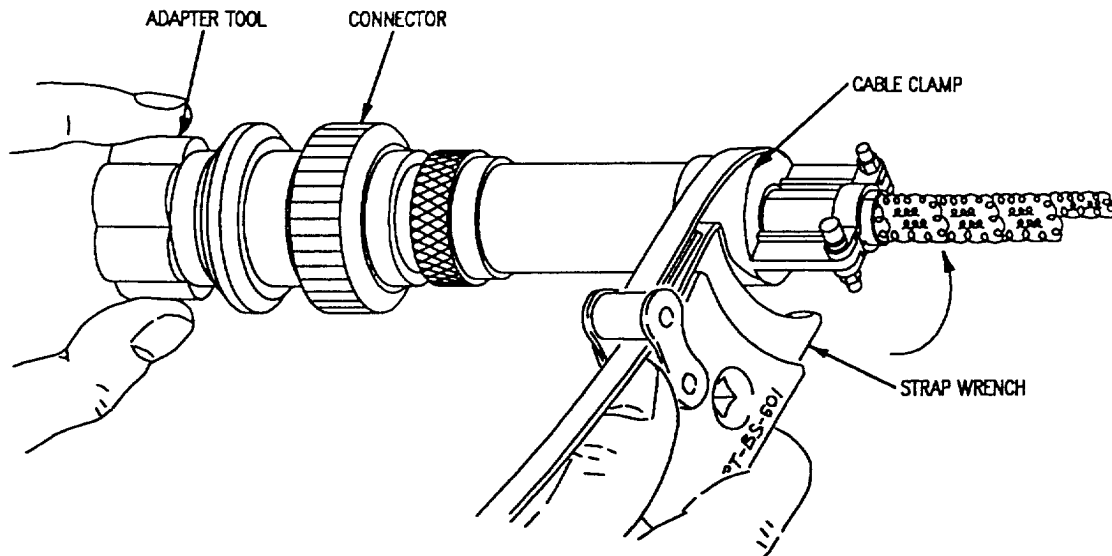
e. On face of connector use T wrench BT-HT-107 connected to CM-837-12-A or CM-837-18-A adapter tool. See figure 10.



F/A-18-WRM-(W150-2)01-CAT I

Figure 10. Holding Connector Face with T-Handle and Adapter

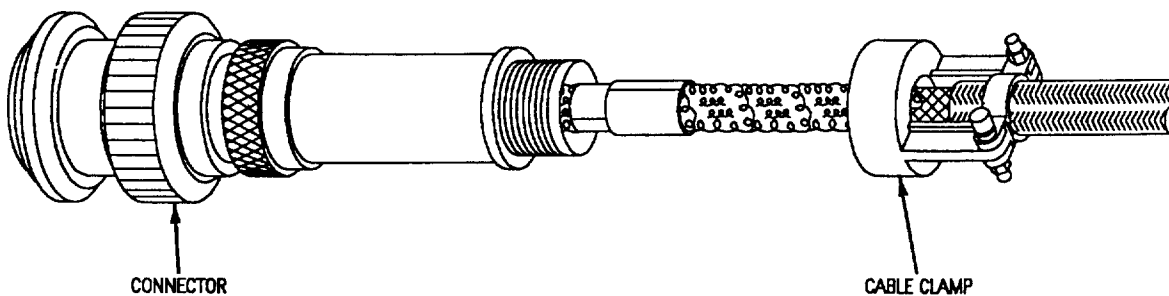
f. Install strap wrench BT-BS-601 on the saddle clamp assembly. See figure 11.



F/A-18-WRM-(W150-3)01-CATI

Figure 11. Strap Wrench BT-BS-601 in Position to Remove Saddle Clamp Assembly

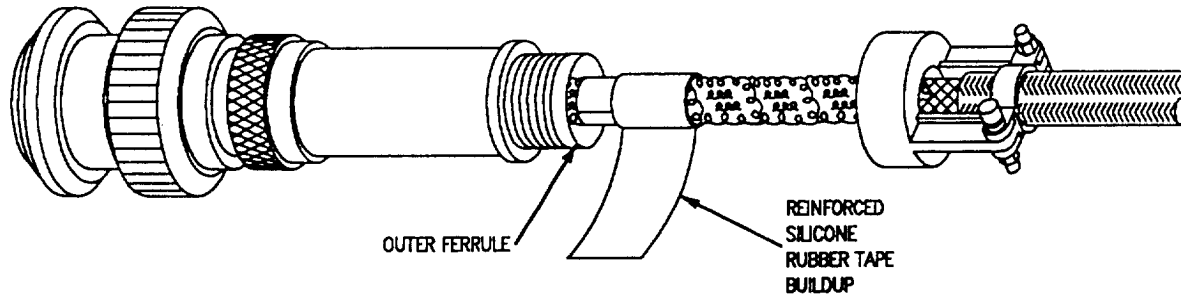
g. Screw saddle clamp counterclockwise until loose. Slip back onto wire bundle. See figure 12.



F/A-18-WRM-(W150-4)01-CATI

Figure 12. Slip Saddle Clamp Assembly Back onto Wire Bundle

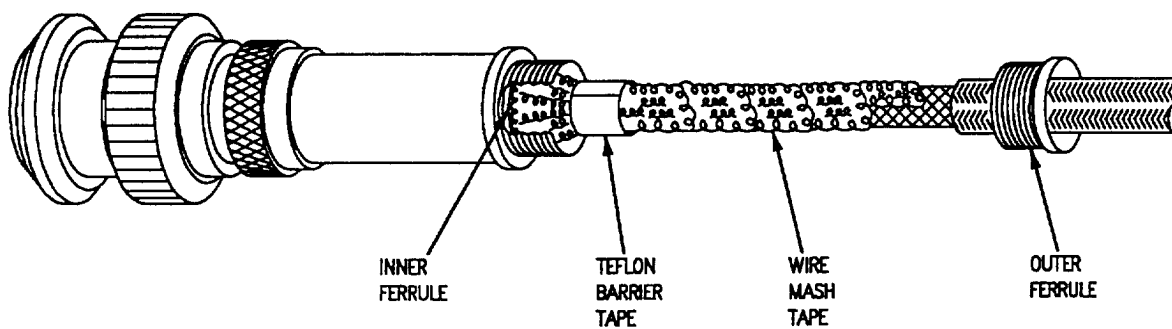
h. Remove reinforced silicone rubber tape build-up. See figure 13.



F/A-18-WRM-(W150-5)01-CATI

Figure 13. Remove Reinforced Silicone Rubber Tape Buildup

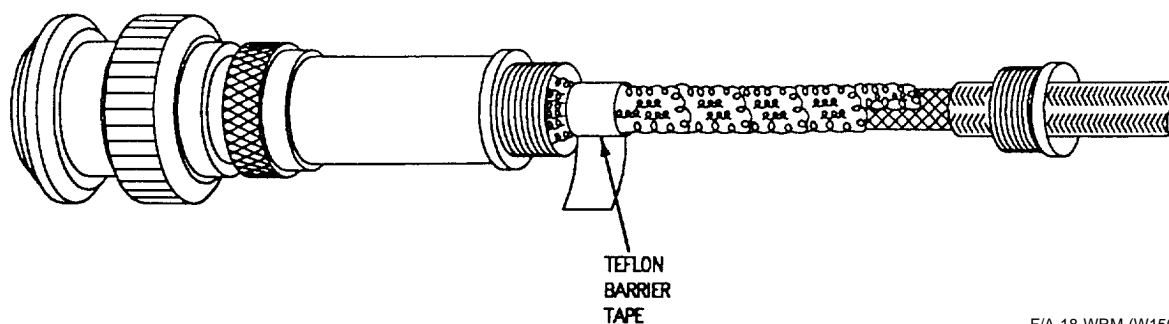
i. Remove outer ferrule by hand. This ferrule is pressed in over shield and inner ferrule. See figure 14.



F/A-18-WRM-(W150-6)01-CATI

Figure 14. Pull Outer Ferrule and Slide Back onto Wire Bundle

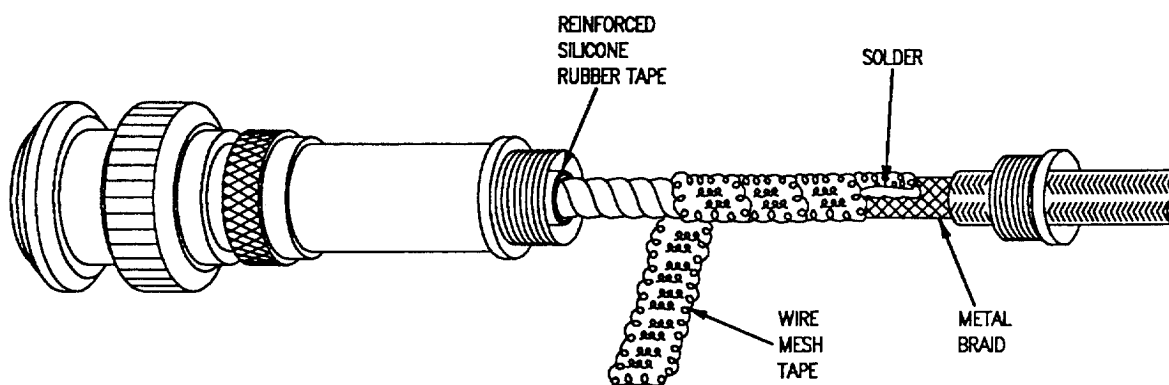
j. Remove teflon barrier tape. See figure 15.



F/A-18-WRM-(W150-7)01-CAT1

Figure 15. Remove Teflon Barrier Tape

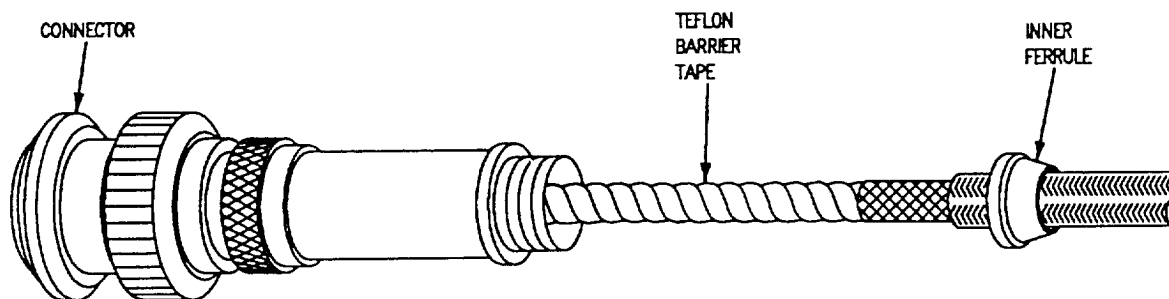
k. Remove wire mesh tape. Use desoldering iron DS40-3 to remove solder connection. See figure 16.



F/A-18-WRM-(W150-8)01-CAT1

Figure 16. Remove Wire Mesh Tape

l. Remove inner ferrule by hand and slip back onto wire bundle See figure 17.

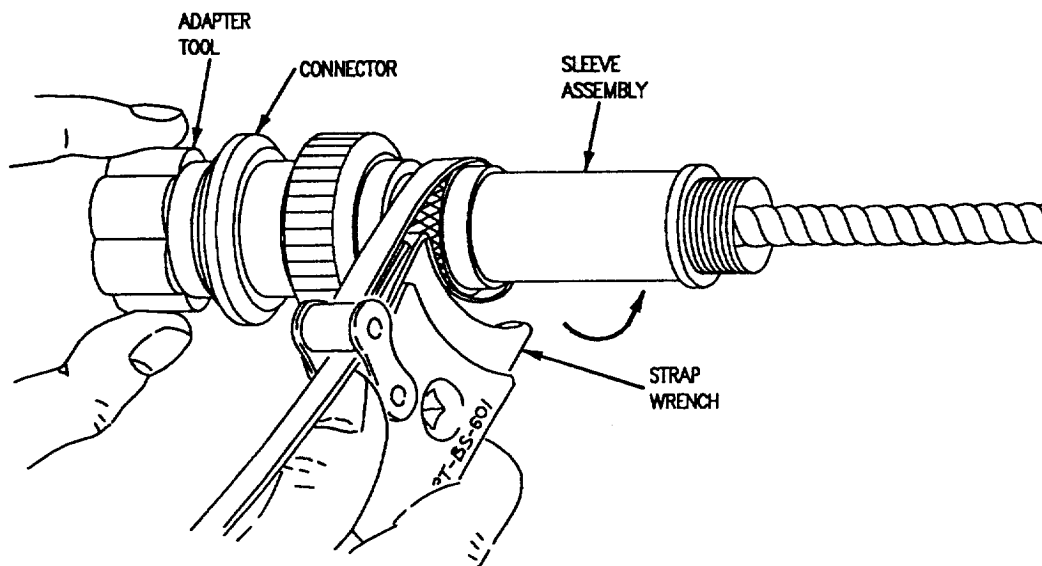


F/A-18-WRM-(W150-9)01-CAT1

Figure 17. Removing Inner Ferrule

m. Slip sleeve assembly back by hand. If too tight, use T Wrench BT-HT-107 connected to CM-837-12-A or CM-837-18-A Adapter to hold connec-

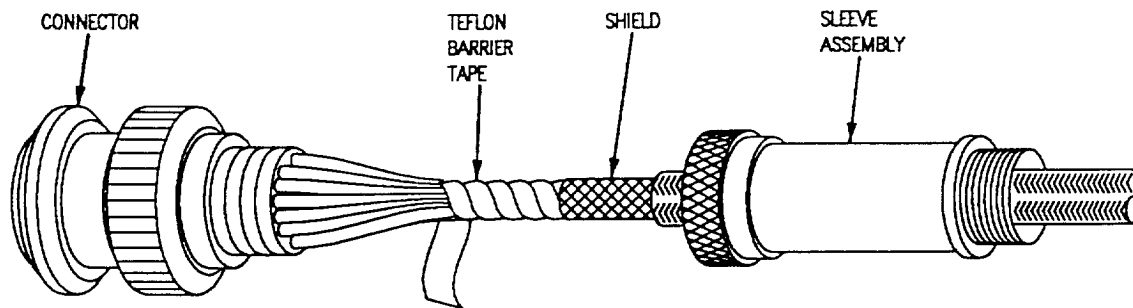
tor. Use strap wrench to remove sleeving assembly. See figure 18.



F/A-18-WRM-(W150-10)01-CAT1

Figure 18. Strap Wrench BT-BS-601 in Position to Remove Sleeve Assembly

n. Remove teflon barrier tape. See figure 19.



F/A-18-WRM-(W150-11)01-CAT I

Figure 19. Remove Teflon Barrier Tape Boot

8. CORROSION CONTROL

a. For cleaning and anti-corrosion methods, refer to NAVAIR 16-1-540.

9. WIRE PREPARATION.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Cut wire to required length.

b. Find the correct connector data figure number and determine correct strip dimension from Contact Data Table. The connector data figure number is listed in the Reference Designation to Figure Number Index within this work package.

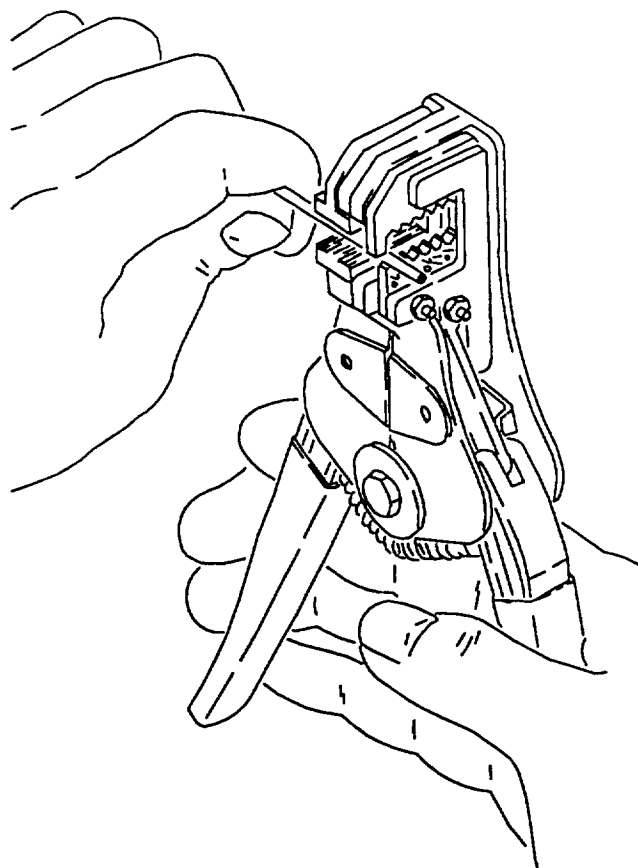
NOTE

Determine the wire types of the wire, using the applicable Cable/Wiring Assembly Data Work Package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

For a detailed explanation of wire strippers see WP010 00.

c. Select the correct wire strippers for the wire by referring to the Wire Type List WP004 00 for the particular wire type used.

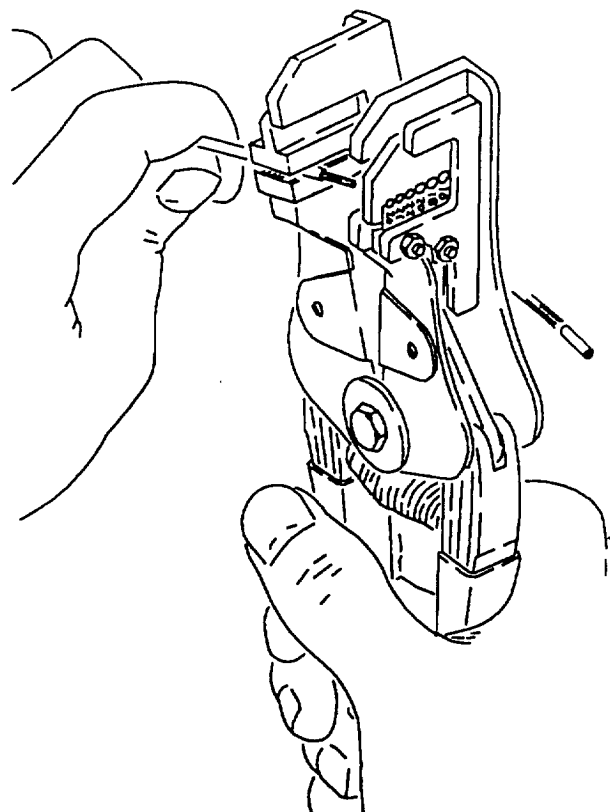
d. Insert wire into exact center of correct cutting slot for wire size to be stripped (each slot is marked with wire size). See figure 20.



F/A-18-WRM-(401-1)01-SCAN

Figure 20. Placing Wire in Slot of Stripping Tool

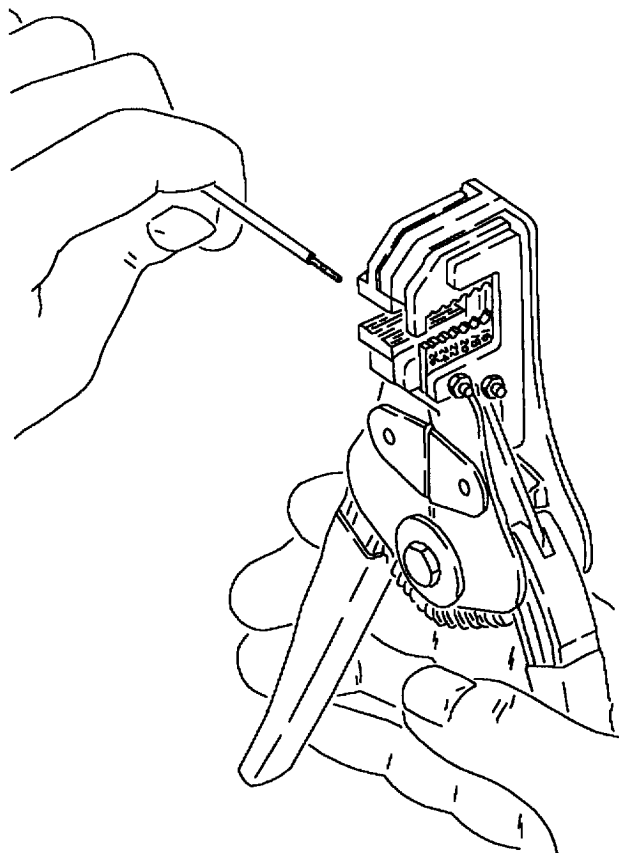
e. Close handles together as far as they will go. See figure 21.



F/A-18-WRM-(402-1)01-SCAN

Figure 21. Removing Insulation

f. Remove wire while releasing handles, allowing wire holder to return to open position. See figure 22.

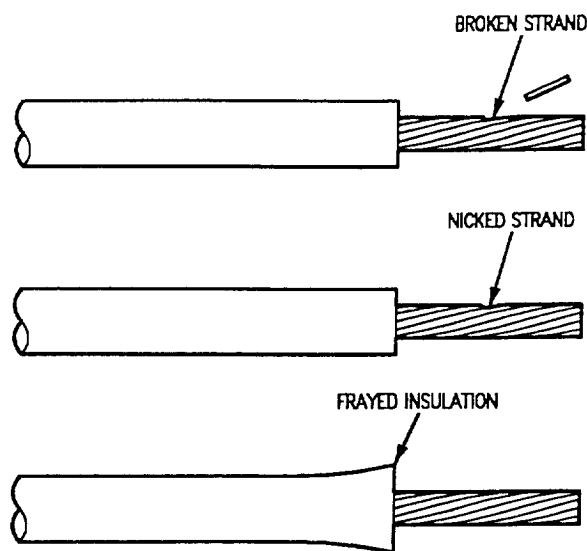


F/A-18-WRM-(403-1)01-SCAN

Figure 22. Stripping Completed

g. After stripping, twist strands of wire firmly together in the same direction as the normal lay of the wire.

h. The below conditions are unacceptable. See figure 23.



F/A-18-WRM-(404-1)01-CATI

Figure 23. Unacceptable Conditions

10. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

a. Find the correct connector data figure number and select specified crimp tool handle and positioner from Tool Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

11. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

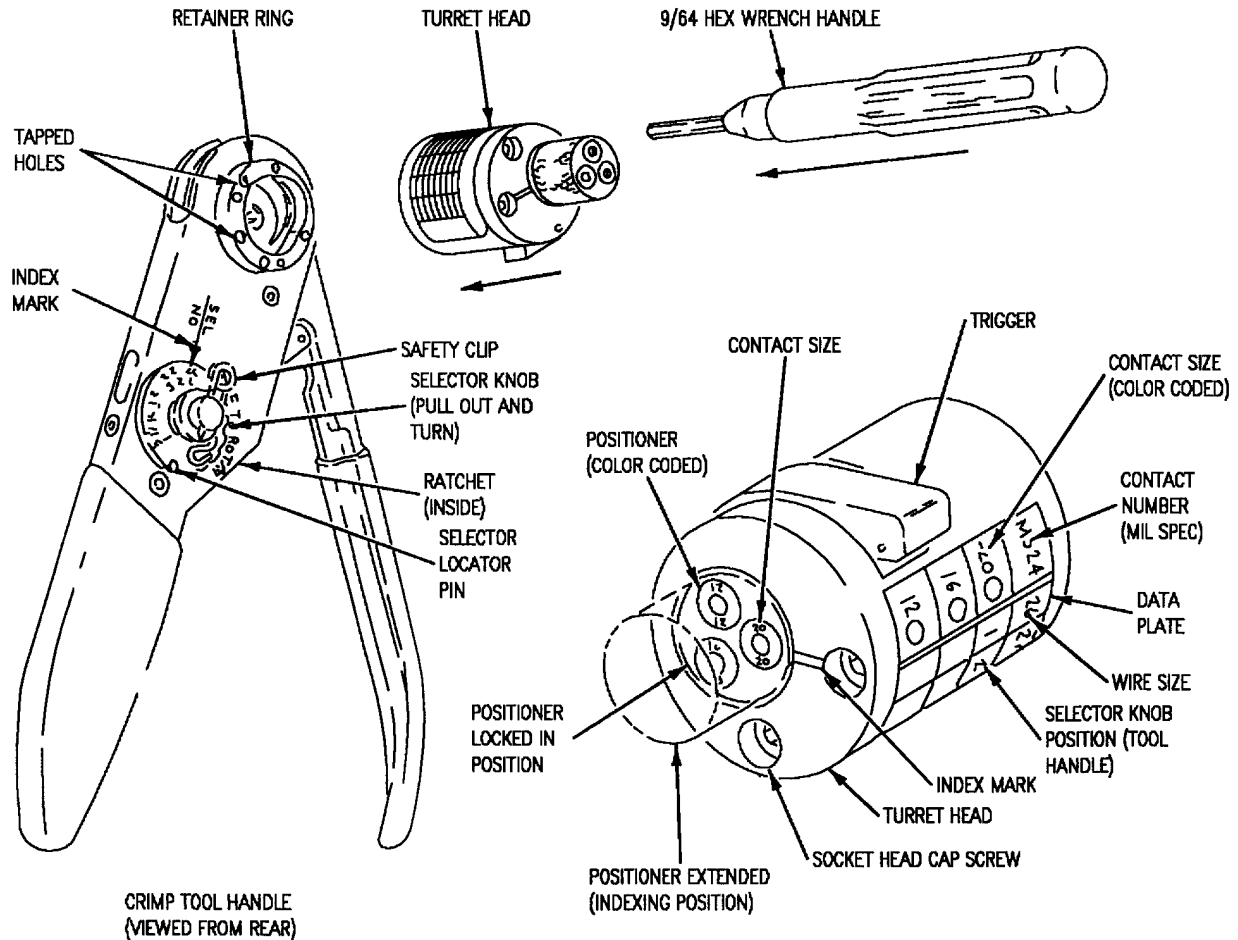
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector positions.

a. Press trigger of turret head releasing positioner to extended (indexing) position. See figure 24.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64 inch hex wrench.

d. To remove turret head, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 24. M22520/1-01 Crimp Tool Handle and Turret Head

12. ADJUSTING TURRET HEAD BEFORE CRIMPING.

a. Press trigger on turret head releasing positioner to extended (indexing) position.

b. Select position desired from color coded data plate on side of turret head assembly.

c. Rotate positioners until color coded positioner is lined up with index mark.

d. Press positioner into turret head until it snaps into locked position.

13. SETTING SELECTOR KNOB USING TURRET HEAD.

- a. Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.
- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on data plate.
- d. Replace safety clip.

14. CONTACT CRIMPING.

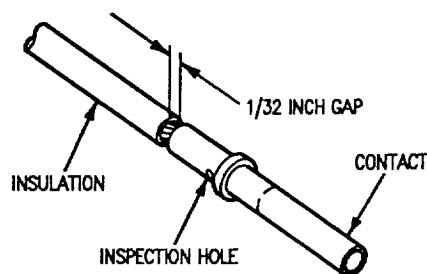


To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Find the correct connector data figure number and select specified contact from Contact Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

b. Insert stripped wire into contact and make sure wire strands are visible in contact inspection hole.

c. Inspect gap dimension between contact and insulation as shown in figure 25.



F/A-18-WRM-(406-2)01-CATI

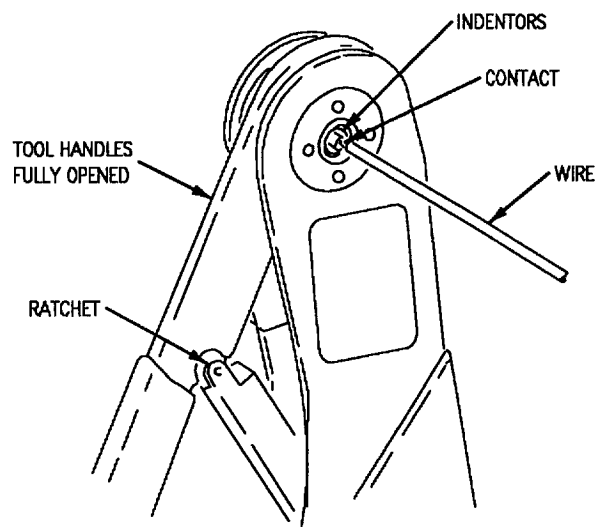
Figure 25. Strip Gap Check

d. Insert contact and wire into crimp tool indentors on front of tool until contact bottoms in positioner/turret. See figure 26, detail A.

NOTE

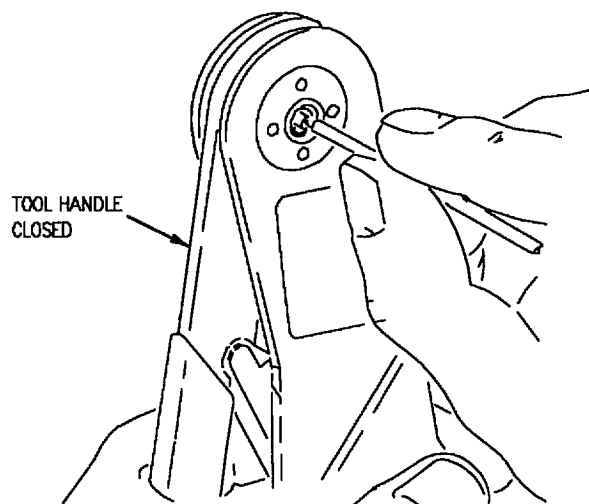
Crimp tool will not release until crimping cycle is completed.

e. Hold wire in place and squeeze tool handles together smoothly until ratchet releases and tool opens. See figure 26, detail B.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A



DETAIL B

F/A-18-WRM-(407-1)01-SCAN

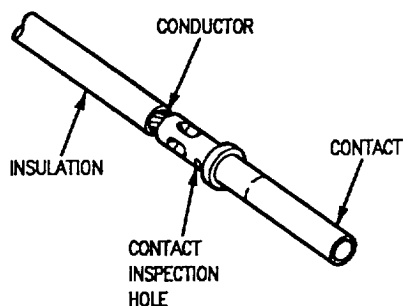
Figure 26. Contact Crimping

f. Remove crimped contact from tool and inspect wire strands in contact inspection hole figure 27.

(1) Two series of four indents shall grip wire and secure contact to wire.

(2) Wire shall be visible in contact inspection hole, indicating that wire is crimped into contact at correct depth.

(3) There shall be no loose or nicked strands.



F/A-18-WRM-(408-2)01-CATI

Figure 27. Inspection of Crimped Contact

15. INSERTION OF CONTACT INTO CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do the below substeps:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Find the correct connector data figure number and select specified insertion tool from Tool Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

WARNING

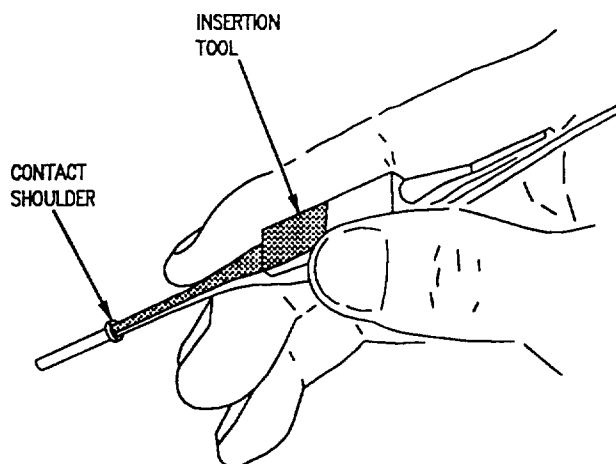
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

c. Isopropyl alcohol may be used as a lubricant for insertion of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Place wire and contact assembly into insertion tool and position tool tip over crimp barrel to butt contact shoulder. See figure 28.



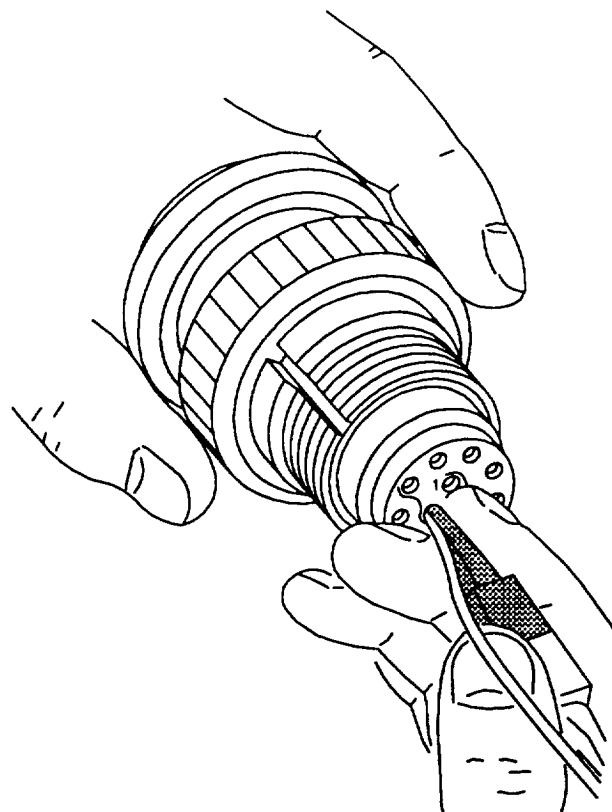
Damage may occur to contact removal tool if tilted or rotated when in connector insert.



F/A-18-WRM-(W150-12)01-SCAN

Figure 28. Inserting Contact into Insertion Tool

e. At right angle to connector insert, align contact with cavity in connector and press contact firmly with insertion tool to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 29.



F/A-18-WRM-(W150-13)01-SCAN

Figure 29. Inserting Contacts into Connector

f. Remove insertion tool by pulling it straight out of contact cavity and disengage from wire. Carefully pull back on wire to make sure contact is correctly seated.

g. Fill all unused contact cavities with uncrimped contacts, then insert sealing plug, small diameter first, until it bottoms against contact cavity. See figure 30.

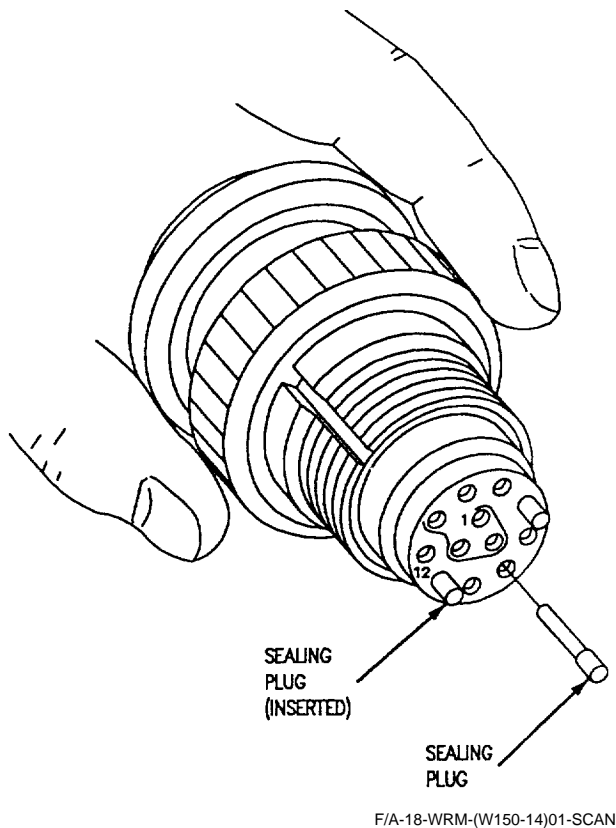


Figure 30. Inserting Sealing Plug(s) into Connector

16. WIRED CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do steps in paragraph 7.

b. Find the correct connector data figure number and select specified removal tool from Tool Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.



Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

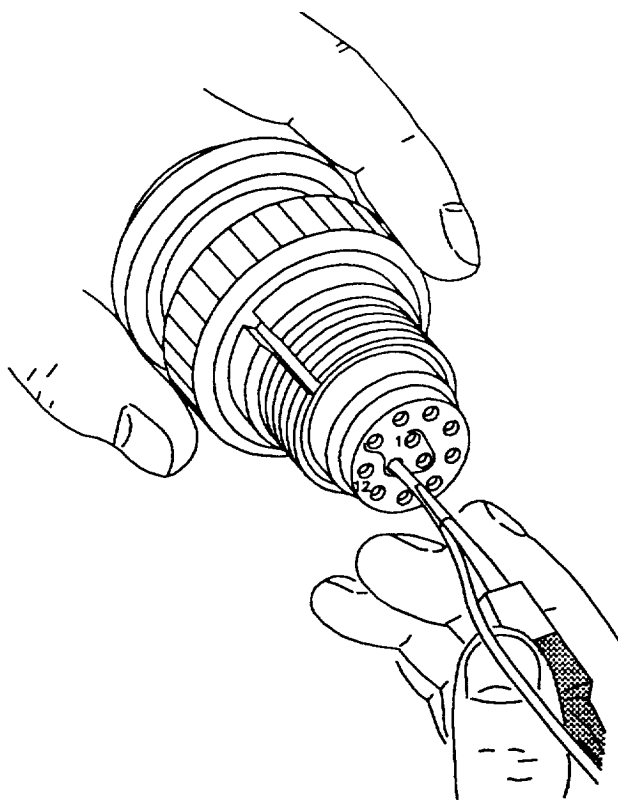


Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Place wire of contact to be removed into removal tool, with tool tip facing connector insert.

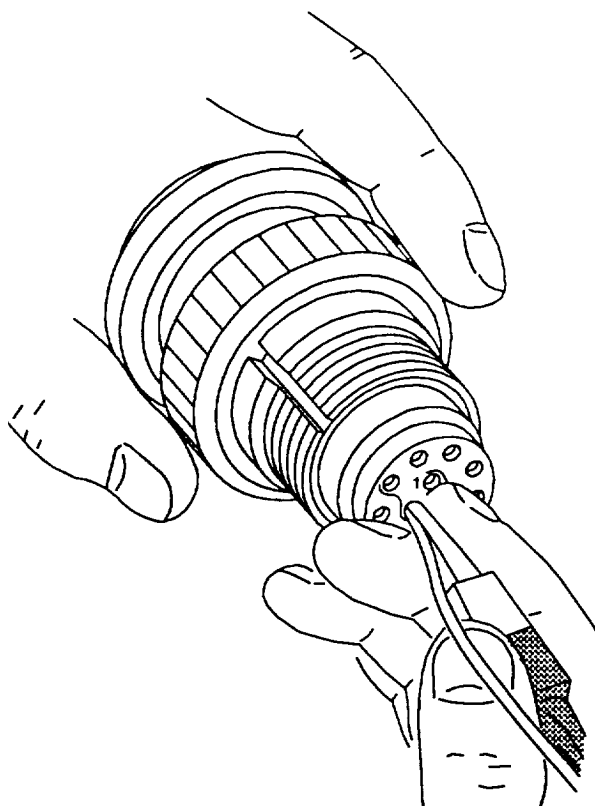
e. Slide removal tool along wire at right angle to connector insert and align with contact cavity. See figure 31.



F/A-18-WRM-(W150-15)01-SCAN

Figure 31. Removal Tool on Wire

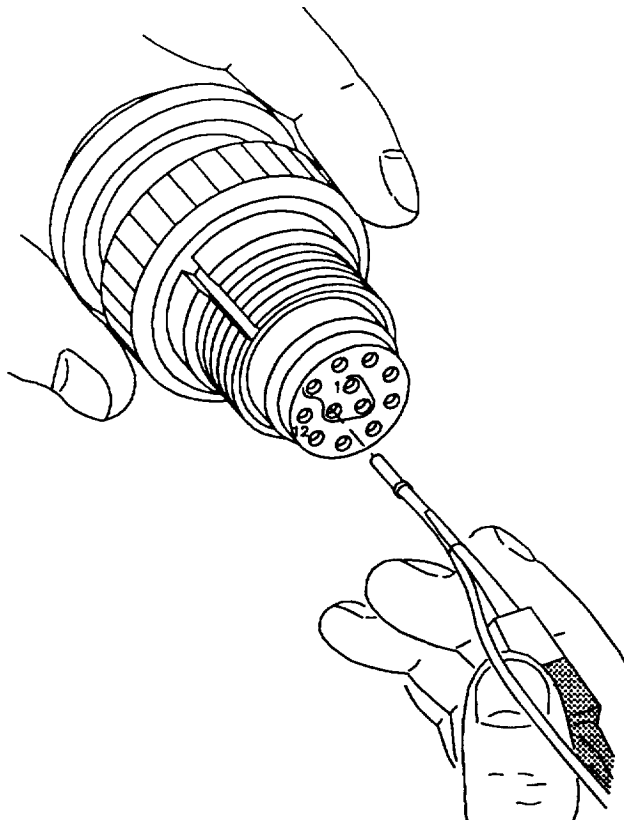
f. Insert tool into contact cavity until tool tip bottoms against contact shoulder. See figure 32.



F/A-18-WRM-(W150-16)01-SCAN

Figure 32. Unlocking Contact Mechanism

g. Hold wire and tool and pull straight out from contact cavity. See figure 33.



F/A-18-WRM-(W150-17)01-SCAN

Figure 33. Removing Contact from Connector

17. UNWIRED CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly do steps in paragraph 7.

b. Find the correct connector data figure number and select specified unwired removal tool(s) from Tool Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.



Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

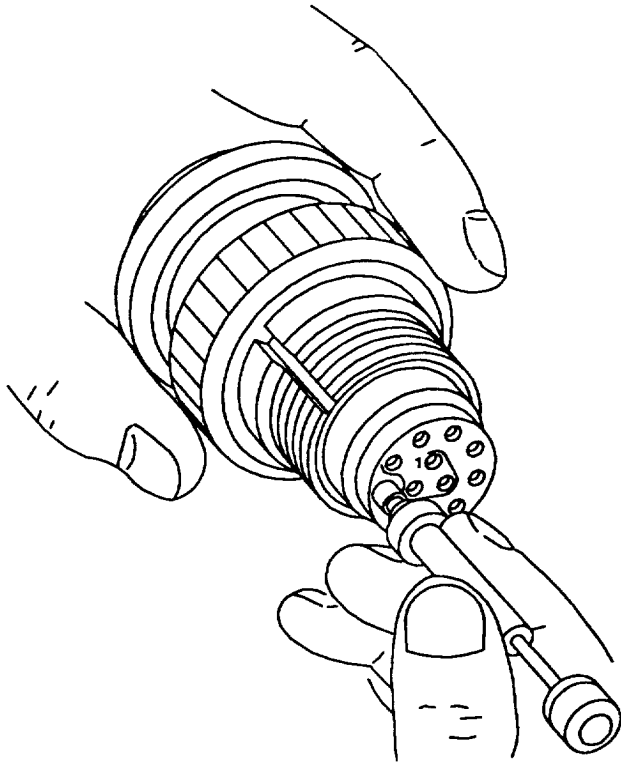
c. Align unwired removal tool, at the rear and at a right angle to connector, with contact to be removed.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

d. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

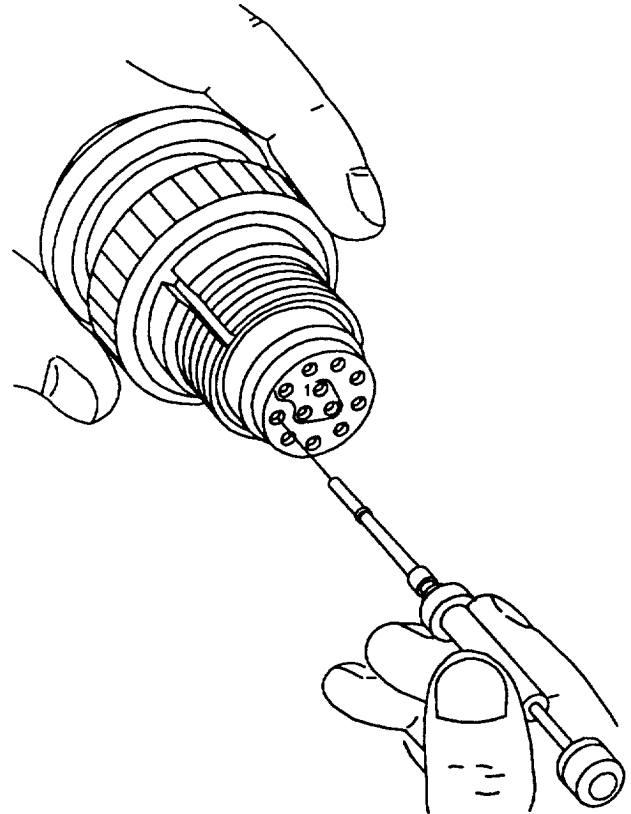
e. Insert unwired removal tool tip into contact cavity until it bottoms in contact cavity and releases contact retention mechanism. See figure 34.



F/A-18-WRM-(W150-18)01-SCAN

Figure 34. Unlocking Contact Retention Mechanism with Unwired Contact Removal Tool

f. Grip tool and withdraw unwired removal tool and contact from rear of the connector. See figure 35.



F/A-18-WRM-(W150-19)01-SCAN

Figure 35. Extracting Contact from Connector

18. BROKEN WIRE CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do the steps in paragraph 7.

b. Remove hardware from rear of connector and slide back over wire bundle.

c. Find the correct Connector data figure and select specified removal tool from Tool Data Table. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

d. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

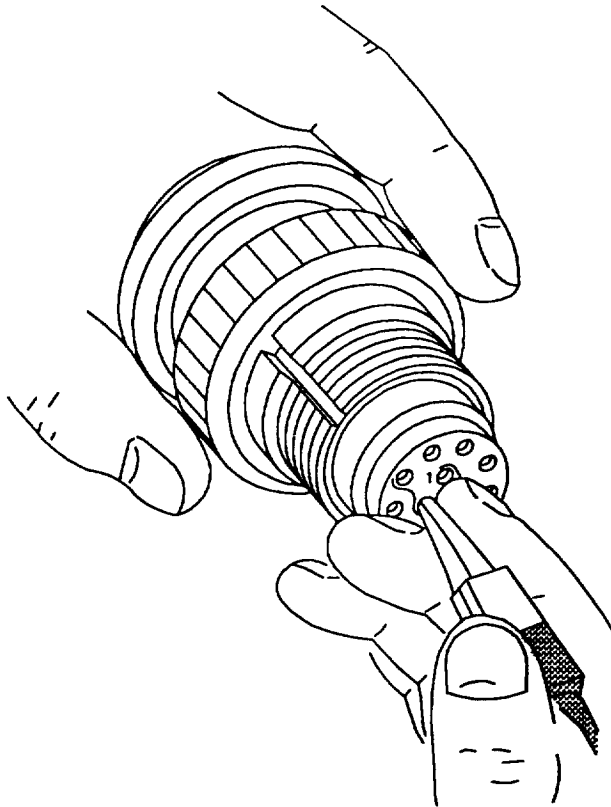
e. Insert tip of removal tool 1/8-inch into cavity at rear of connector.



Wire strands may be encountered at any point during tool insertion. Do not jam wire strands in contact cavity. Withdraw removal tool anytime during insertion when it cannot be advanced into connector using these procedures. Inspect tool tip for nicks, cracks, mushrooming and other damage that will prevent its functioning. Replace removal tool and repeat procedure if required.

f. Carefully insert removal tool into contact cavity in 1/16-inch increments, releasing tool after each increment if resistance is felt.

g. If resistance is felt before removal tool reaches back end of contact withdraw tool slightly, rotate 1/6 of a turn, and reinsert tool. Repeat rotation and insertion procedure until tool passes with minimal additional force and bottoms in contact cavity. See figure 36.



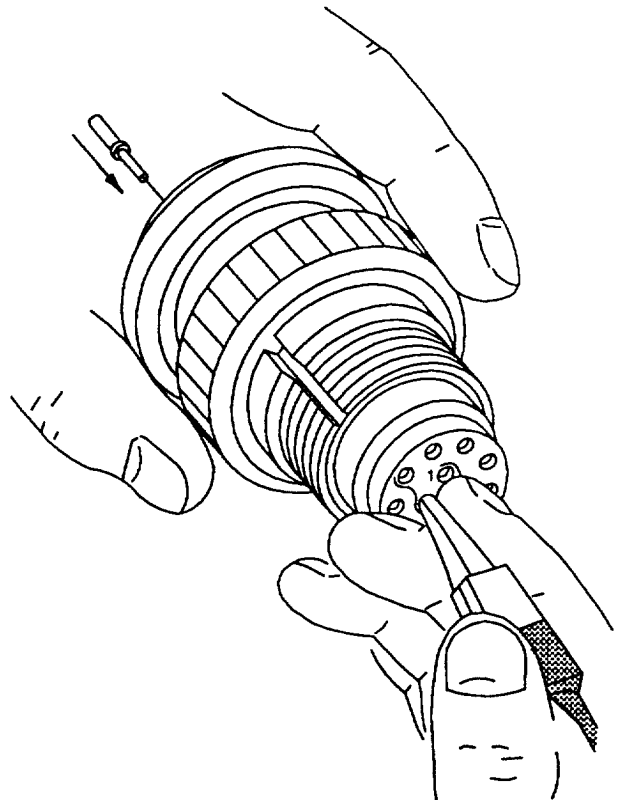
F/A-18-WRM-(W150-20)01-SCAN

Figure 36. Unlocking Contact Retention Mechanism of Broken Wire Contact

h. Wiggle removal tool carefully to help it into contact cavity and over contact. Additional rotation may be required if broken strands are encountered.

i. Continue insert of removal tool until positive stop is felt.

j. Exert pressure at right angle to connector insert engaging end of contact. Using a mating contact as pusher (if contact does not move, seat removal tool more firmly). See figure 37.



F/A-18-WRM-(W150-21)01-SCAN

Figure 37. Broken Wire Contact Removal

19. SOLDERING PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

NOTE

Soldering provides a mechanical and electrical bond between metallic components. To get a good solder joint, all surfaces must be clean. The soldering iron must be clean and tinned with a thin layer of solder to conduct heat. Ex-

cessive solder on the soldering iron tip may cause solder to splash on nearby components. A damp cloth can be used to wipe excess solder and residue from soldering iron tip.

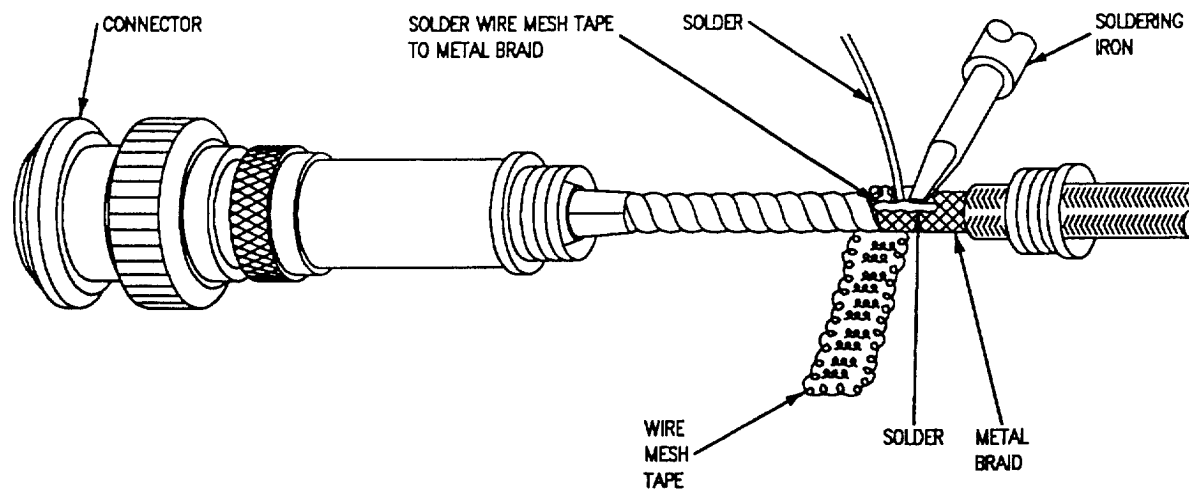
- a. Clean and tin soldering iron.

WARNING

Cleaning compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- b. Clean wire mesh tape and cable metal braid with cleaning compound.

c. Hold wire mesh tape and metal braid together, heat wire mesh tape and metal braid with soldering iron until solder flows. See figure 38.

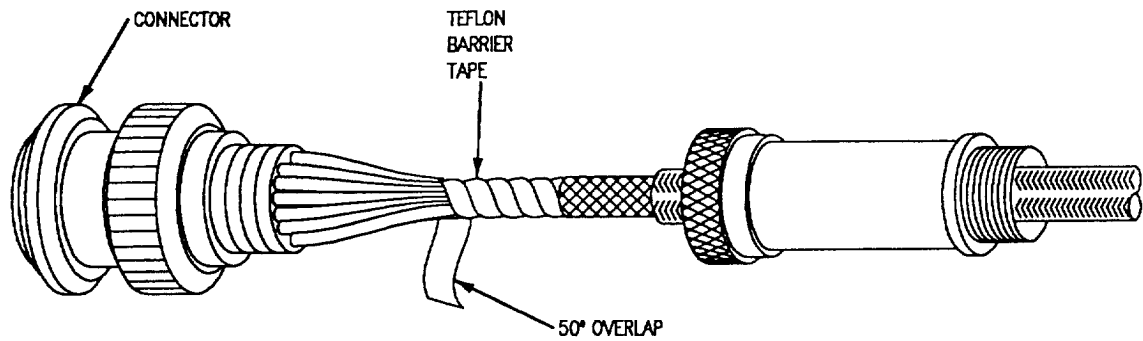


F/A-18-WRM-(W150-22)01-CAT I

Figure 38. Soldering Procedure

20. REASSEMBLY PROCEDURE.

a. Wrap wire bundle with a fifty percent overlap of teflon barrier tape (Table 1). See figure 39.



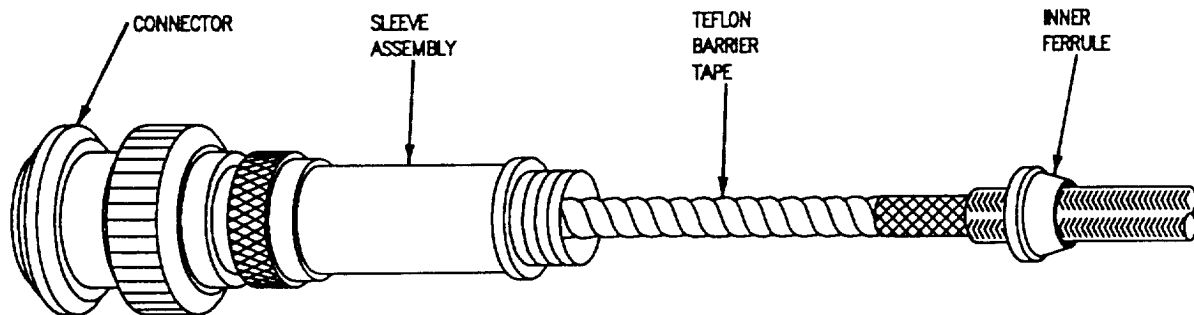
F/A-18-WRM-(W150-23)01-CAT1

Figure 39. Teflon Barrier Tape Wrap

Table 1. Teflon Barrier Tape

PART NUMBER	CAGE	WIDTH (INCH)
MIL-I-23594, TYPE2, 0.500IN.	81349	1/2
TAPE COMES IN ROLLS. COLOR-WHITE OR BROWN TEMPERATURE RANGE: -130° TO +500°F		

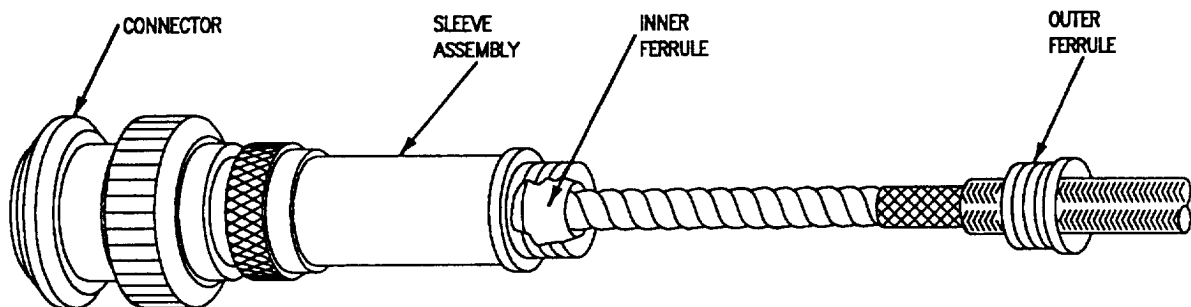
b. Slip sleeve assembly forward to connector and tighten clockwise by hand. See figure 40.



F/A-18-WRM-(W150-24)01-CATI

Figure 40. Assemble Sleeve Assembly on Connector

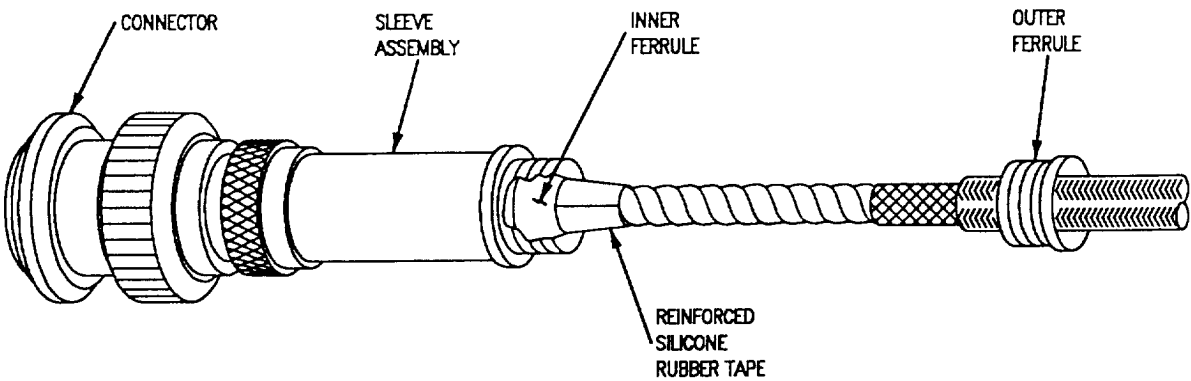
c. Slip inner ferrule forward and inside of sleeve assembly by hand. See figure 41.



F/A-18-WRM-(W150-25)01-CATI

Figure 41. Assemble Inner Ferrule in Sleeve Assembly

d. Buildup reinforced silicone rubber tape (Table 2) as necessary to make inner ferrule fit correctly. See figure 42.



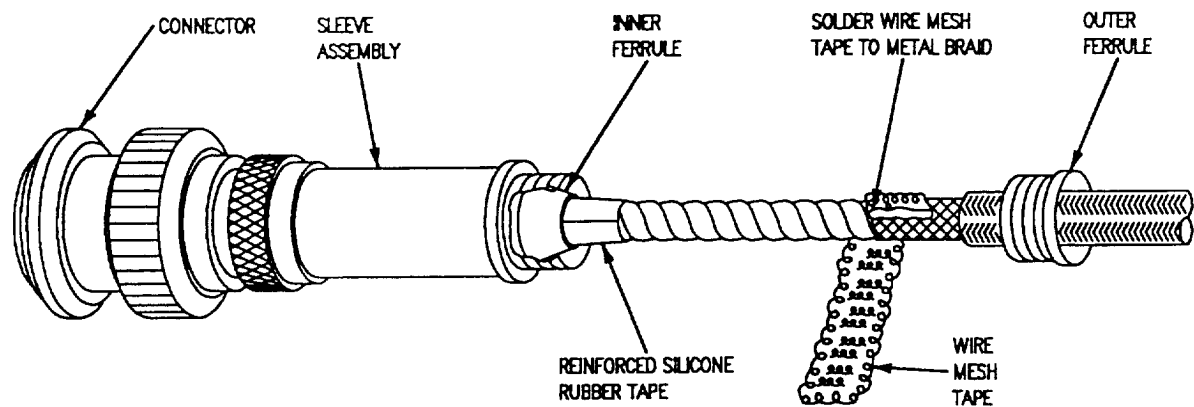
F/A-18-WRM-(W150-26)01-CATI

Figure 42. Installation of Reinforced Silicone Rubber Tape

Table 2. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-80	07099	1/2
S-5025	07099	1/2
REINFORCED WITH FIBERGLASS SELF BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE; -178° TO +500°F		

e. Solder wire mesh tape (Table 3) to wire bundle shield. Refer to paragraph 19. See figure 43.



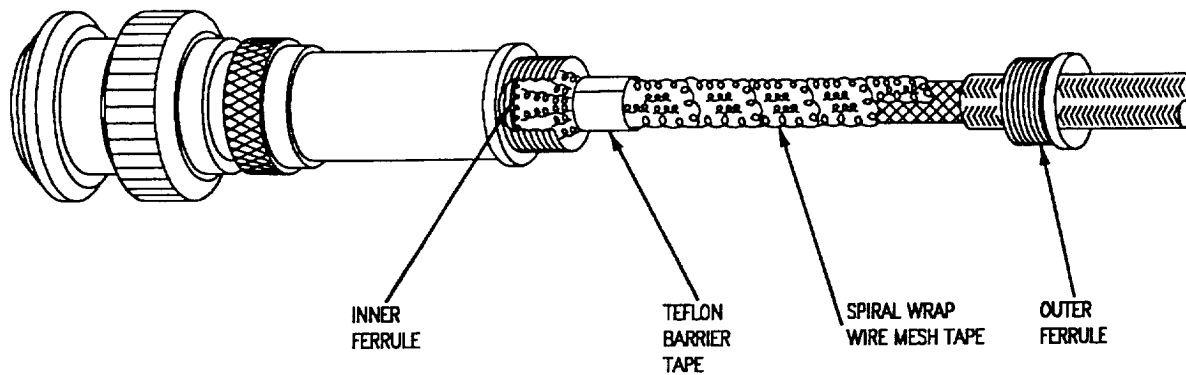
F/A-18-WRM-(W150-27)01-CAT1

Figure 43. Solder Wire Mesh Tape

Table 3. Wire Mesh Tape

Part Number	CAGE	Width (Inch) Nominal
SC61298	OBKF2	1.000
TAPE COMES IN ROLLS OUTSIDE DIAMETER 3 INCHES. TEMPERATURE RANGE -65° TO +300°F		

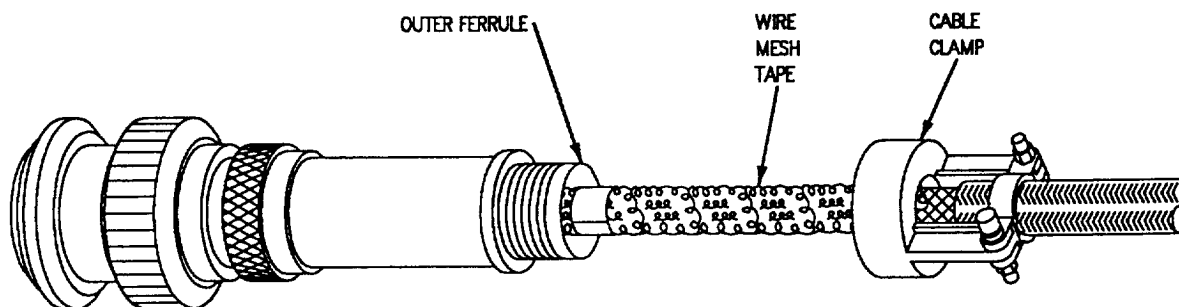
f. Wrap wire mesh tape with a fifty percent overlap, to inner ferrule. Secure end of wire mesh tape wrap with teflon barrier tape. See figure 44.



F/A-18-WRM-(W150-28)01-CATI

Figure 44. Wire Mesh Tape Wrap

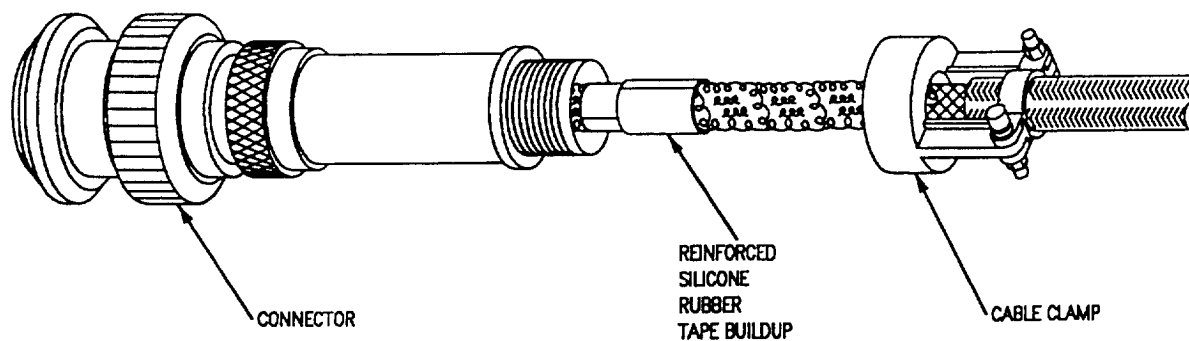
g. Slip outer ferrule into sleeve assembly, over wire mesh tape and inner ferrule by hand. See figure 45.



F/A-18-WRM-(W150-29)01-CATI

Figure 45. Install Outer Ferrule

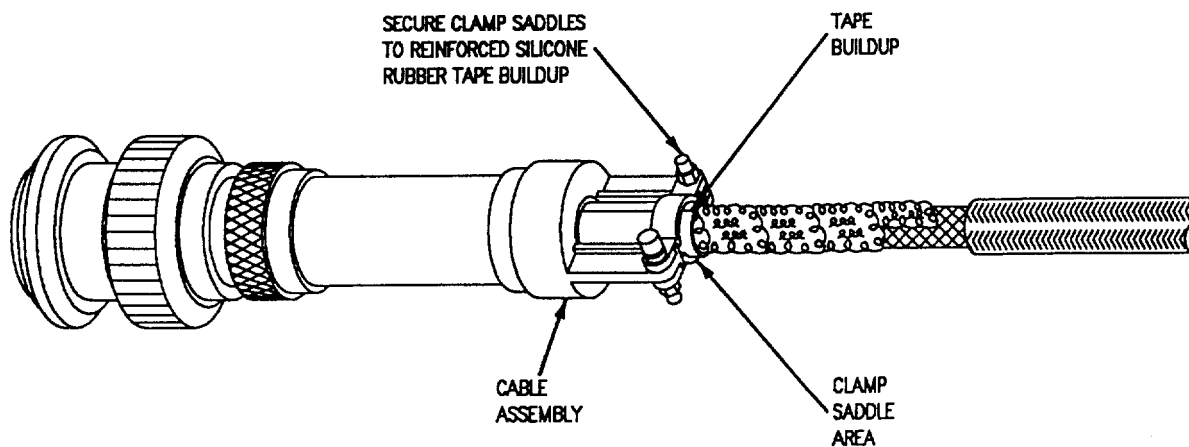
h. Buildup wire bundle behind sleeve assembly, with reinforced silicone rubber tape See figure 46.



F/A-18-WRM-(W150-30)01-CAT1

Figure 46. Reinforced Silicone Rubber Tape Buildup to Fill Clamp Assembly

i. Slip clamp assembly into sleeve assembly. Rotate clamp assembly clockwise until clamp assembly is hand tight. Tighten screws on clamp. See figure 47.

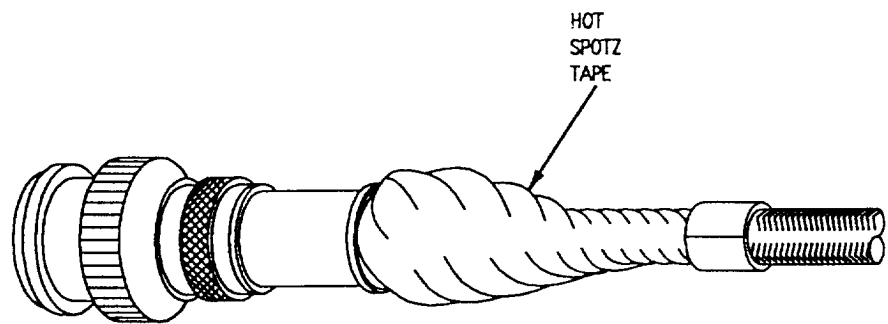


F/A-18-WRM-(W150-31)01-CAT1

Figure 47. Install Clamp Assembly

j. Wrap Hot Spotz (thermal barrier) tape (Table 4) one complete turn around connector backshell, do not cover backshell drain holes. Continue wrapping with a 50% overlap. Wrap back over exposed wiring onto

harness braid about 1/2 inch. Terminate tape by wrapping one full turn around and perpendicular to cable axis. See figure 48.



F/A-18-WRM-(WRM-32)01-CATI

Figure 48. Securing Hot Spotz Tape Boot

Table 4. Hot Spotz Tape

PART NUMBER	CAGE	WIDTH (INCH)
AF100A	62088	1
AF150A	62088	1 1/2
TAPE COMES IN ROLLS COLOR - SILVER TEMPERATURE RANGE; -178° TO +500°F		

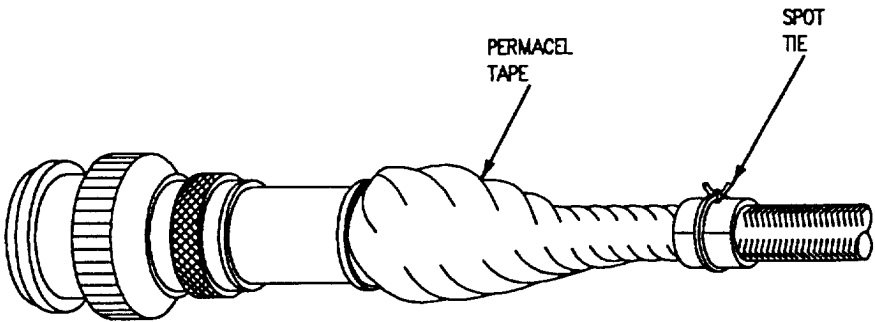
NOTE

Wrap permacel tape in same direction as hot spotz tape was applied.

k. Wrap permacel tape (Table 5) over hot spotz tape beginning with one complete turn around connector backshell, do not cover backshell drain holes. Con-

tinue wrapping with a 50% overlap, ending wrap where hot spotz tape ended. Terminate tape by wrapping one full turn around and perpendicular to cable axis.

l. Secure in place with spot tie lacing tape. After tying tape, apply enough silicone varnish to secure knot and cover the cut ends. See figure 49.

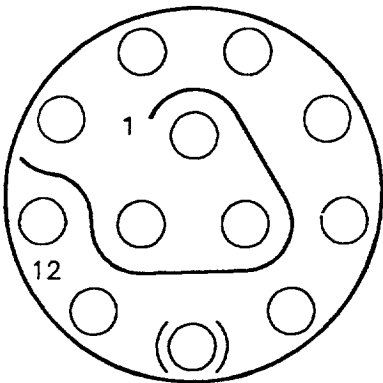


F/A-18-WRM-(W150-33)01-CATI

Figure 49. Securing Permacel Tape Boot

Table 5. Permacel Tape

PART NUMBER	CAGE	WIDTH (INCH)
2650	32132	1
SELF BONDING TAPE COMES IN ROLLS COLOR - RED TEMPERATURE RANGE; -178° TO +500° F		



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(W150-34)01-CATI

Reference Designation to Backshell Data Index for BJ8-12E12-12SD Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
52P-S055C 52P-T056C	MS3437C13S MS3437C13S	This WP This WP

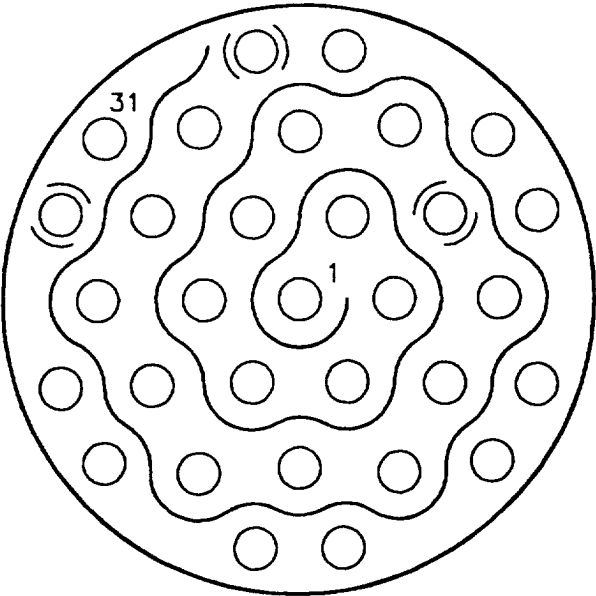
Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/1-01
Positioner	M22520/2-02
Insertion Tool (Red)	M81969/14-02
Removal Tool (White)	M81969/14-02
Removal Tool (Unwired)	DRK110-1SA
Removal Tool Probe (Red)	DRK110-20-2

Table 2. Contact Data

CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
1 THRU 12	7/32	M39029/5-115	MS27488-20

Figure 50. BJ8-12E12-12SD Connector



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(W150-35)01-CATI

Reference Designation to Backshell Data Index for BJ8-12E18-31SD Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
52P-S055A 52P-T056A	MS3437C25S S2015-18R30SD	This WP This WP

Reference Designation to Backshell Data Index for BJ8-12E18-31SD06 Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
52P-S055B 52P-T056B	MS3437C25S S2015-18R30SD	This WP This WP

Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/1-01
Positioner	M22520/2-02
Insertion Tool (Red)	M81969/14-02
Removal Tool (White)	M81969/14-02
Removal Tool (Unwired)	DRK110-1SA
Removal Tool Probe (Red)	DRK110-20-2

Figure 51. BJ8-12E18-31SD and BJ8-12E18-31D06 Connectors (Sheet 1)

Table 2. Contact Data

CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
1 THRU 31	7/32	M39029/5-115	MS27488-20

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****L22TF96PN1 AND L22TF96S8N1 (MIL-C-83723) MULTI-PIN TRIAX CONNECTOR REPAIR**

Reference Material

Avionics Cleaning and Corrosion Prevention Control	NAVAIR 16-1-540
Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

Unwired connector cavities shall have a sealing
plug installed to prevent water intrusion.

80P-L018

15

80J-L018

17

Support Equipment Required

1. DESCRIPTION.

Part Number or
Type Designation

Nomenclature

2. The L22TF96PN1 and L22TF96S8N1 are circular
environmental resistant type plugs with a temperature
range of -85° to +257°F and contain triax pins.

3308AS100

Repair Set-Wire and
Connector

3. Each connector part number is supported by an
illustration which represents the contact arrangement, a
reference designation list and tables containing tooling
and parts data.

Materials Required

Specification
or Part Number

Nomenclature

TT-I-735 GRADE B

Alcohol, Isopropyl

4. CORROSION CONTROL.

a. For cleaning and anticorrosion methods, refer to NAVAIR 16-1-540.

5. REPAIR PROCEDURE.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

6. WIRE PREPARATION.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00 respectively. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Cut wire to required length.

b. Determine correct strip dimension in table 2 contact data in the correct connector data figure number. The connector figure number is listed in the Reference Designation to Figure Number Index within this work package.

NOTE

Determine the wire types of the wire, using the applicable Cable/Wiring Assembly Data Work Package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

For a detailed explanation of wire strippers see WP010 00.

c. Select the correct wire strippers for the wire by referring to the Wire Type List WP004 00 for the particular wire type used.

7. INSERTION OF TRIAXIAL CONTACT INTO CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do the below substeps:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Select insertion tool specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

WARNING

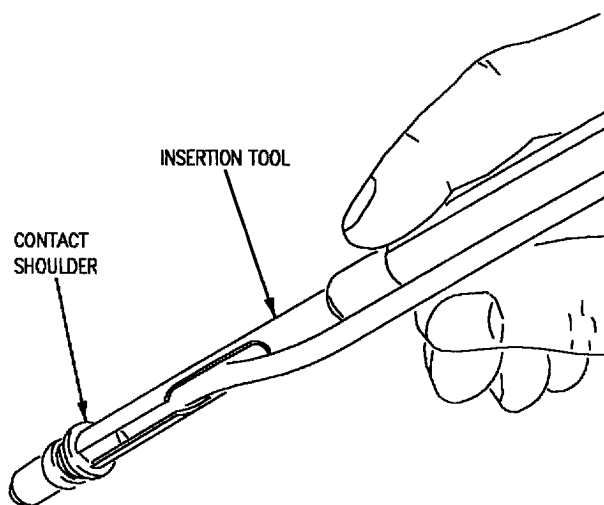
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Place wire and contact assembly into insertion tool and position tool tip over crimp barrel to butt contact shoulder. See figure 1.



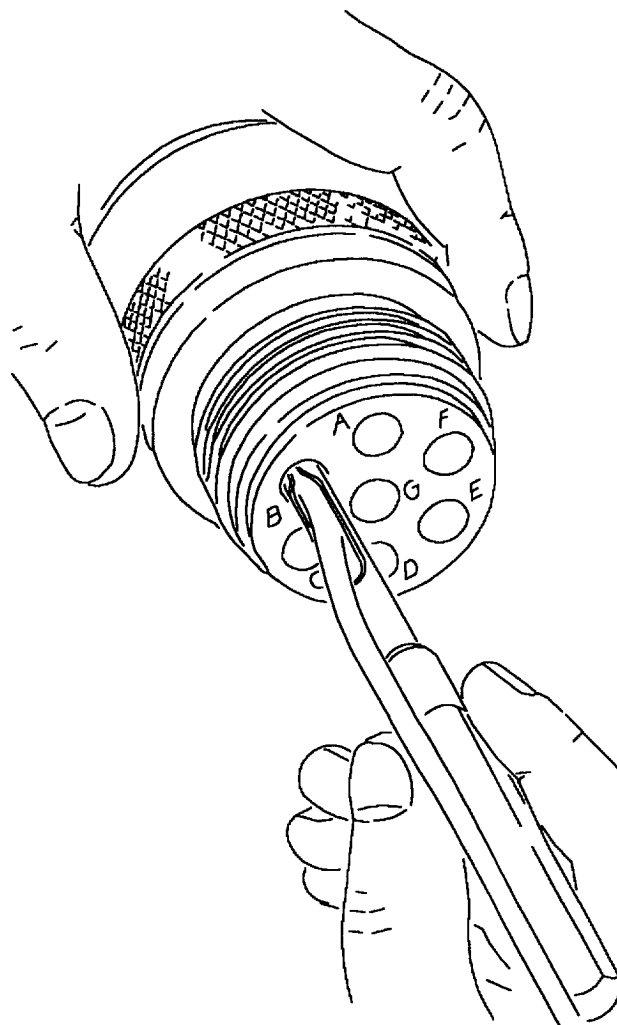
Damage may occur to contact removal tool if tilted or rotated when in connector insert.



F/A-18-WRM-(761-1)02-SCAN

Figure 1. Inserting Triaxial Contact into Insertion Tool

e. At right angle to connector insert, align contact with cavity in connector and press contact firmly with insertion tool to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 2.

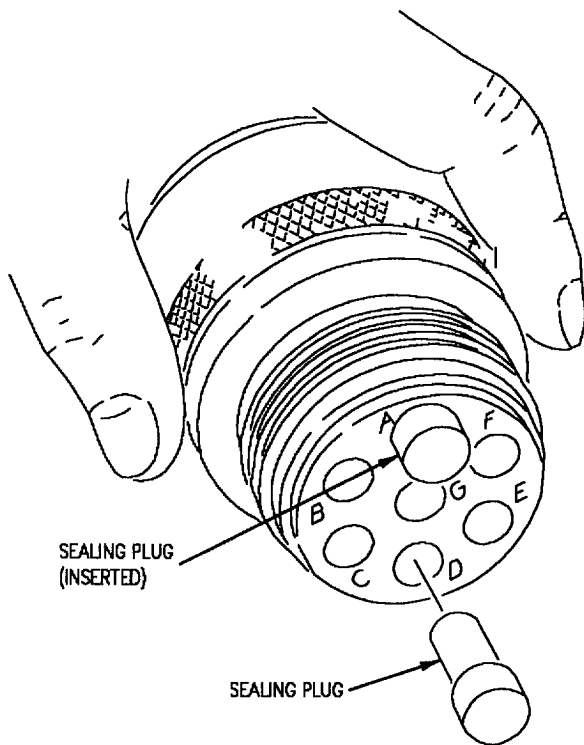


F/A-18-WRM-(762-1)02-SCAN

Figure 2. Inserting Triaxial Contact into Connector

f. Remove insertion tool by pulling it straight out of contact cavity and disengage from wire. Carefully pull back on wire to make sure contact is correctly seated.

g. Fill all unused contact cavities with sealing plug small diameter first, until it bottoms against contact cavity. See figure 3.



F/A-18-WRM-(762-2)02-SCAN

Figure 3. Inserting Sealing Plug(s) into Connector

8. TRIAXIAL CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Select removal tool specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.



Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

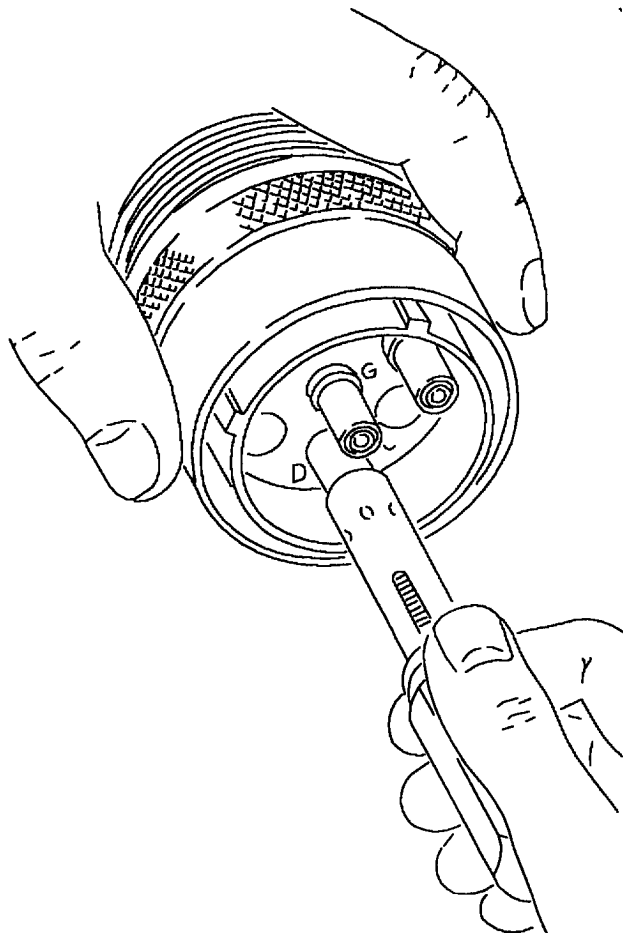


Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Working from front (mating end) of connector, slide hollow end of removal tool over contact to be removed.

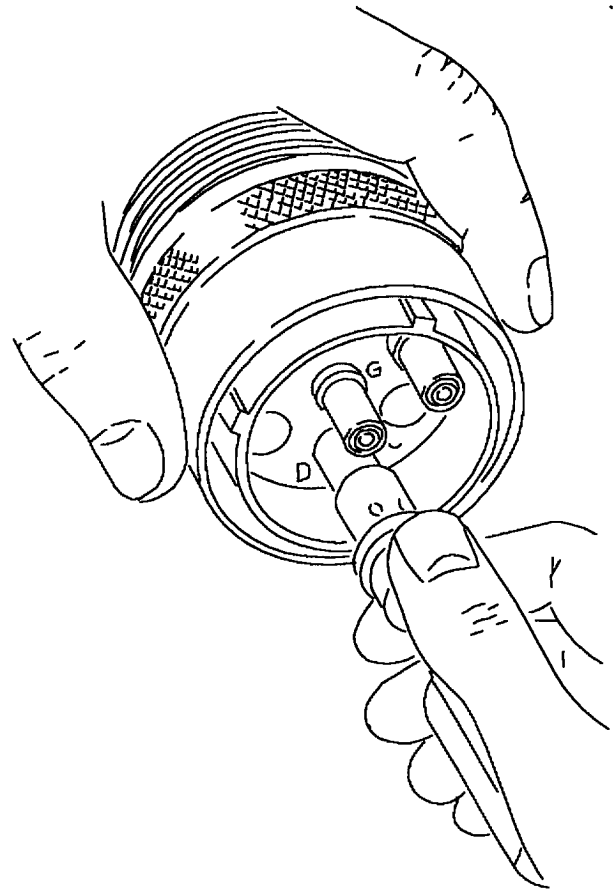
e. Holding removal tool at a right angle to front insert face, push tool straight toward rear of connector, firmly pressing tool to positive stop when it bottoms in insert cavity. See figure 4.



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**Figure 4. Unlocking Triaxial
Contact Mechanism**

f. Maintain pressure on tool handle and slide collar of tool forward until it stops. Contact shall be partially ejected from rear of connector insert. See figure 5.

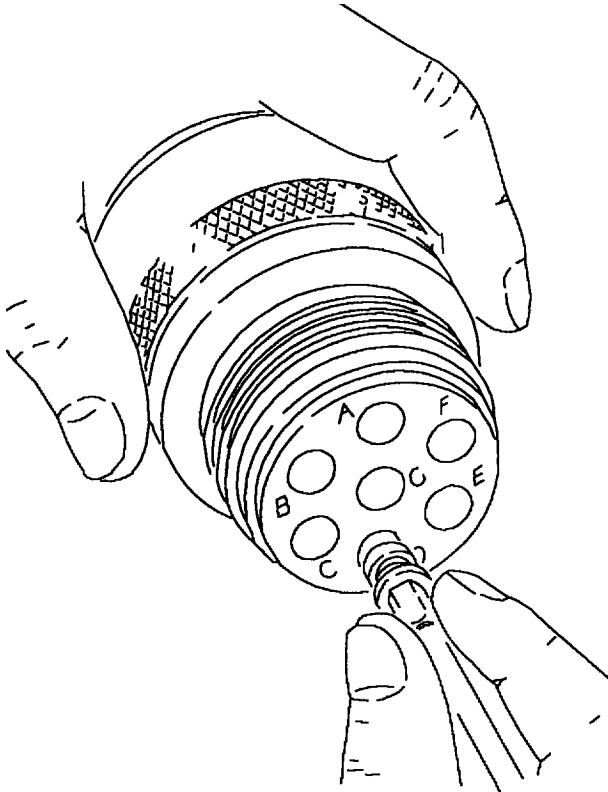


F/A-18-WRM-(762-4)02-SAN

**Figure 5. Removing Triaxial
Contact from Connector**

g. Remove tool from contact cavity by pulling straight back to clear connector insert face.

h. Remove contact from rear of connector. See figure 6.



F/A-18-WRM-(762-5)02-SCAN

Figure 6. Extracting Wired Triaxial Contact from Connector

9. TRIAX REPAIR PROCEDURES.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly do the below substeps:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

10. TRIAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

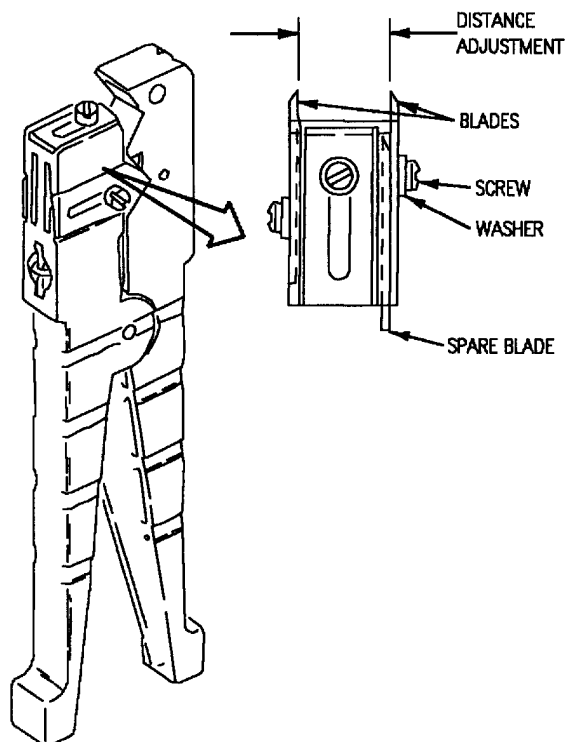
11. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 7.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

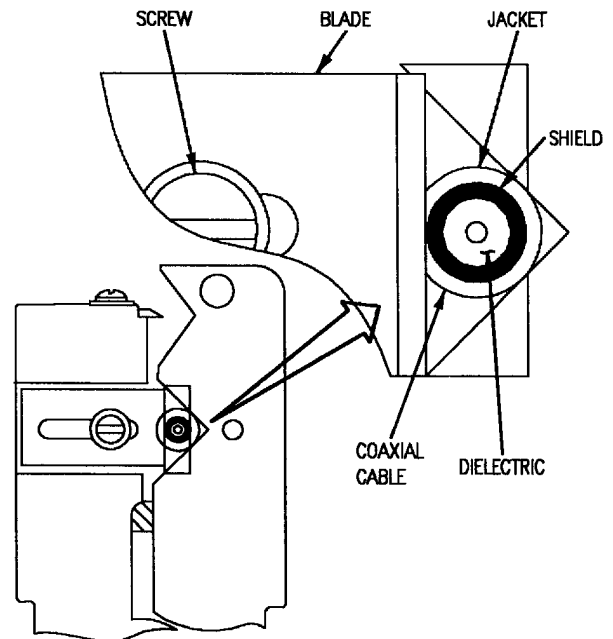
Figure 7. Distance Adjustment

12. CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 8.
- Adjust blade until it cuts through jacket without nicking shield and tighten screw.



F/A-18-WRM-(409-3)01-CATI

Figure 8. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 9.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If required, repeat steps 12a through 12d until blades cut through jacket and shield without damaging shield and dielectric.

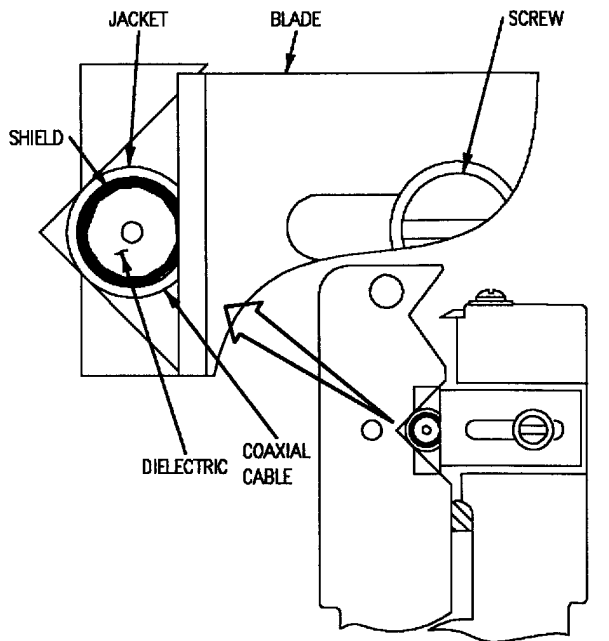


Figure 9. Shield Cut Adjustment

13. USE.

a. Position stripper on cable so that blades face. See figure 10.

NOTE

Rotating stripper in wrong direction may cause stripper to jump off.

b. Rotate stripper on cable by pressing handle blade side of stripper. Six to eight rotations will required to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.

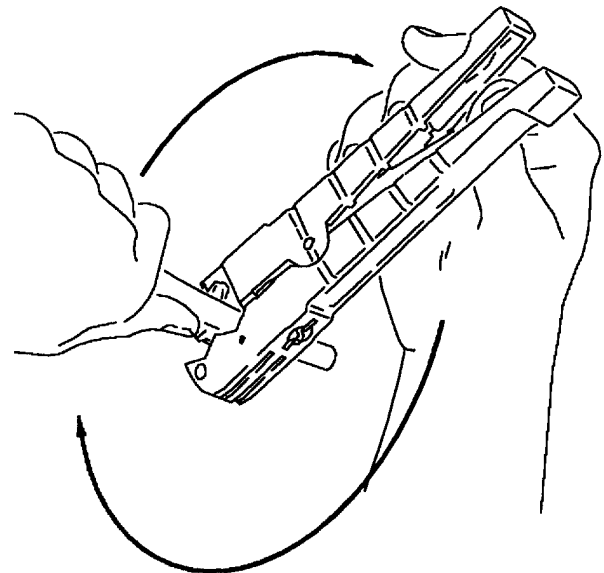
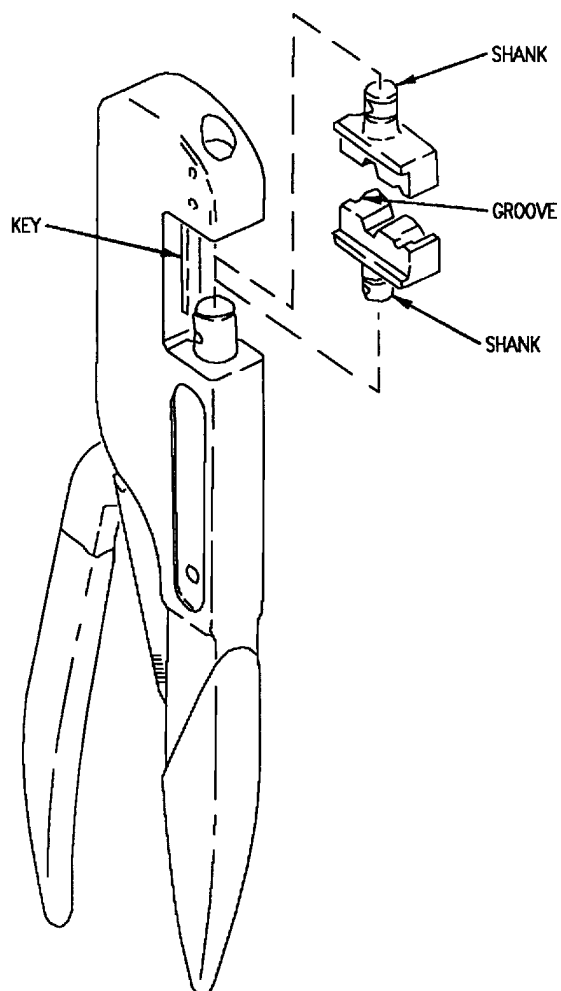


Figure 10. Operation

14. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

15. DIE INSTALLATION.

- Align groove in die with key in crimping tool and push shank of die into hole.
- Close handle to make sure dies are seated and locked in place. See figure 11.



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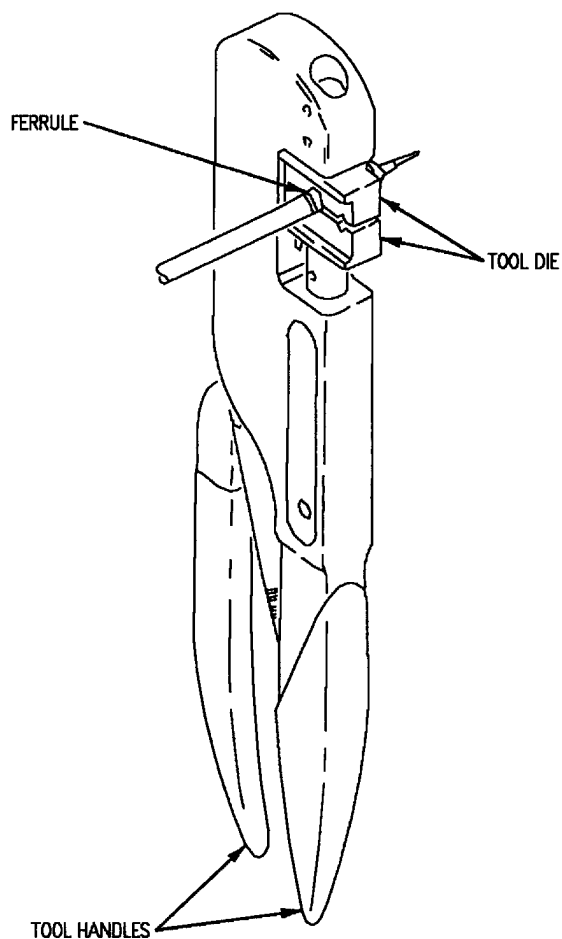
Figure 11. Die Installation

16. CRIMP PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

- Slide outer ferrule over braided shield. Crimp outer ferrule. See figure 12.



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Figure 12. Crimping Operation

b. Squeeze tool handles until ratchet releases.

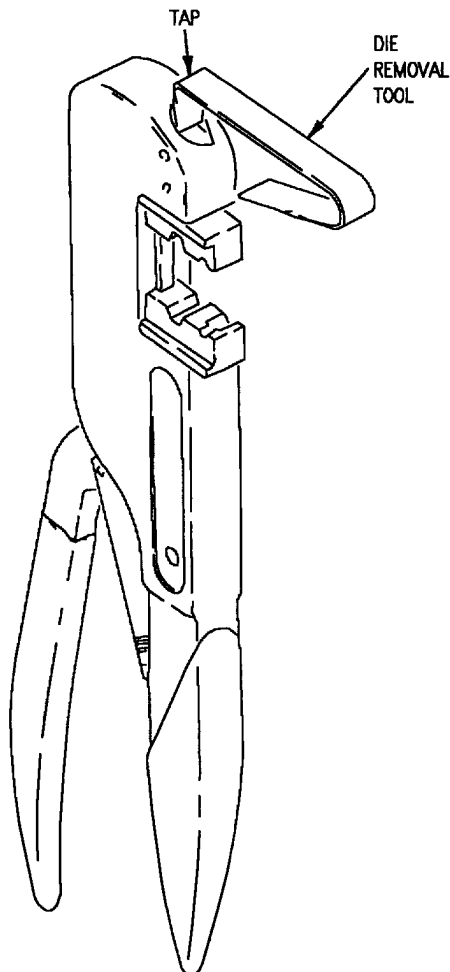
c. Open handles and remove ferrule assembly and inspect crimp.

17. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 13.



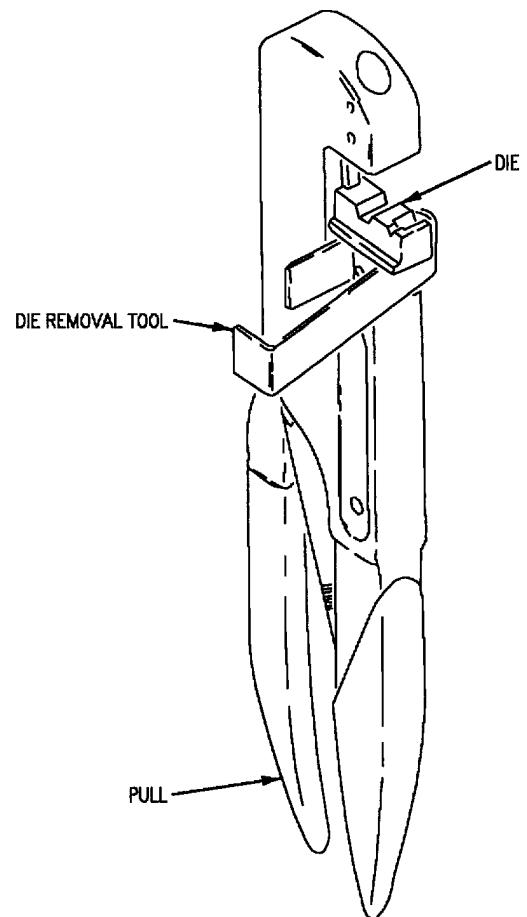
F/A-18-WRM-(410-3)01-SCAN

Figure 13. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/15-inch. The die can now be removed by hand.

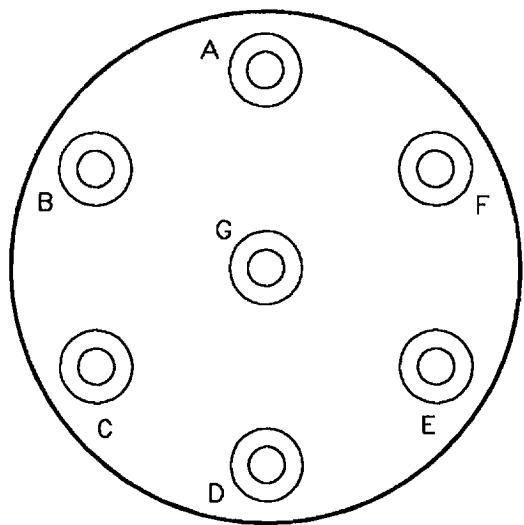
c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 14.

d. Pull handle open with snap action. The die will be released from the lock spring and can then be removed by hand.



F/A-18-WRM-(410-4)01-SCAN

Figure 14. Lower Die Removal



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(819-7A)01-CATI

Reference Designation to Backshell Data Index for L22TF96PN1 Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
80P-L018	None	None

Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/5-01
Die Set (Center Contact)	Y308S (Closure C)
Die Set (Inner Shield Ferrule)	Y308S (Closure B)
Die Set (Outer Shield Ferrule)	Y308S (Closure A)
Insertion Tool	DAK87-8
Removal Tool	DRK87-8
Removal Tool (Unwired)	DRK87-8

Table 2. Contact Data

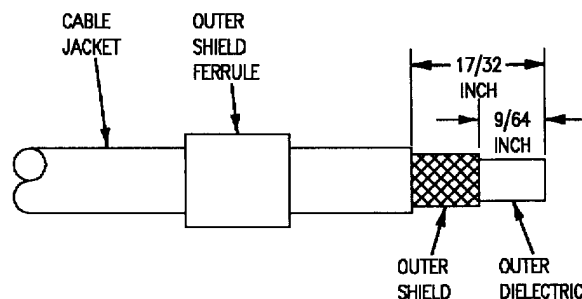
CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
A THRU G	See Assembly Procedure for Triax Contact, figure 16	902-5020-2	MS27488-8

Figure 15. L22TF96PN1 Connector

CAUTION

When stripping cable, only amount of material necessary shall be removed. Do not cut too deep; braided shield or insulation may be damaged. Strip dimensions shall be as accurate as possible. Incorrect strip dimensions are the greatest cause of contact failure.

- a. Slide outer shield ferrule over cable.
- b. Strip jacket and outer shield using cable stripper 45-163.



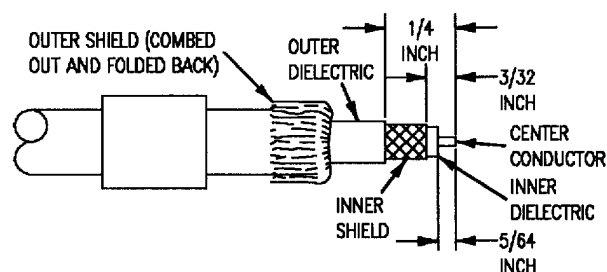
F/A-18-WRM-(343-1)02-CAT1

- c. Comb out outer shield and fold back over jacket.

CAUTION

To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

- d. Strip outer dielectric, inner shield and inner dielectric, using cable strippers 45-163.



F/A-18-WRM-(343-2)02-CAT1

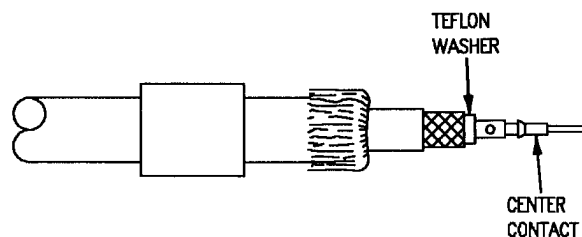
Figure 16. 902-5020-2 Triaxial Assembly Procedures (Sheet 1)

e. Slide teflon washer over center conductor until it butts against the inner dielectric.

f. Slide center contact over center conductor until it butts against the teflon washer. Center conductor must be visible through inspection hole of contact.

g. Crimp center contact using M22520/5-01

■ Crimping Tool and Y308 Die Set, closure C.

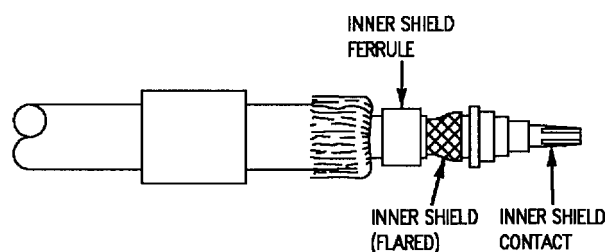


F/A-18-WRM-(343-3)02-CATI

h. Slide inner shield contact over inner dielectric and under inner shield until it stops.

i. Flare inner shield.

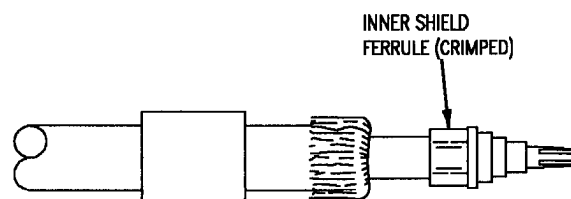
j. Trim inner shield at shoulder of inner shield contact.



F/A-18-WRM-(343-4)02-CATI

k. Slide inner shield ferrule over inner shield until it butts against shoulder of inner shield contact and crimp in place using M22520/5-01

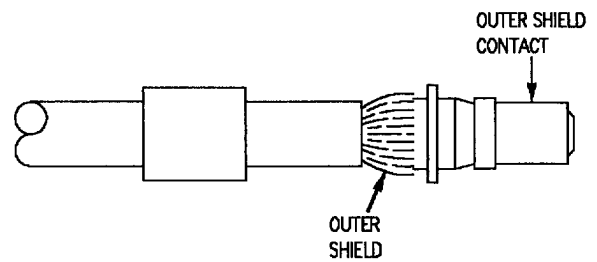
■ Y308 Die Set, closure B.



F/A-18-WRM-(343-5)02-CATI

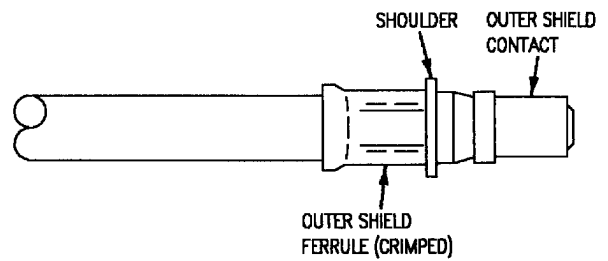
Figure 16. 902-5020-2 Triaxial Assembly Procedure (Sheet 2)

l. Slide outer shield contact over inner shield contact until it stops and fold outer shield forward over outer shield contact and trim outer shield at shoulder.



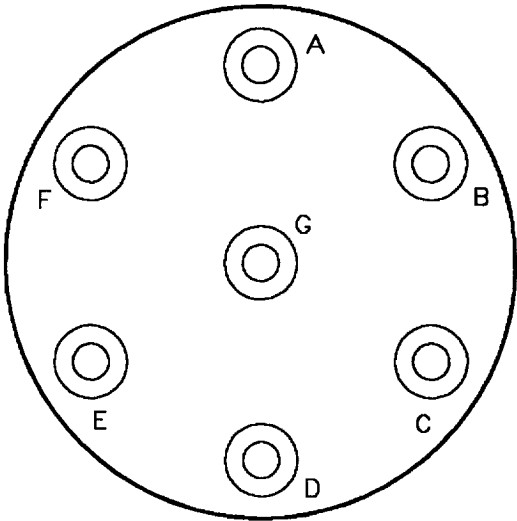
F/A-18-WRM-(343-6)02-CAT1

m. Slide outer shield ferrule over outer shield until it butts against the shoulder of the outer shield contact and crimp in place using M22520/5-01 Crimping Tool and Y308 Die Set, closure A.



F/A-18-WRM-(343-7)02-CAT1

Figure 16.902-5020-2 Triaxial Assembly Procedure (Sheet 3)



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(919-7A)01-CATI

Reference Designation to Backshell Data Index for L22TF96S8N1 Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
80J-L018	Backshell comes with connector	None

Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/5-01
Die Set (Center Contact)	Y308S (Closure C)
Die Set (Inner Shield Ferrule)	Y308S (Closure B)
Die Set (Outer Shield Ferrule)	Y308S (Closure A)
Insertion Tool	DAK87-8
Removal Tool	DRK87-8
Removal Tool (Unwired)	DRK87-8

Table 2. Contact Data

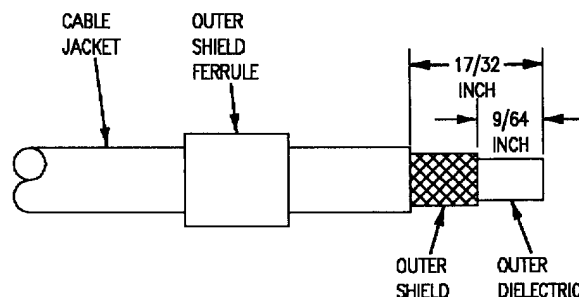
CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
A THRU G	See Assembly Procedure for Triax Contact, figure 18	902-5019-2	MS27488-8

Figure 17. L22TF96S8N1 Connector

CAUTION

When stripping cable, only amount of material necessary shall be removed. Do not cut too deep; braided shield or insulation may be damaged. Strip dimensions shall be as accurate as possible. Incorrect strip dimensions are the greatest cause of contact failure.

- a. Slide outer shield ferrule over cable.
- b. Strip jacket and outer shield using cable stripper 45-163.



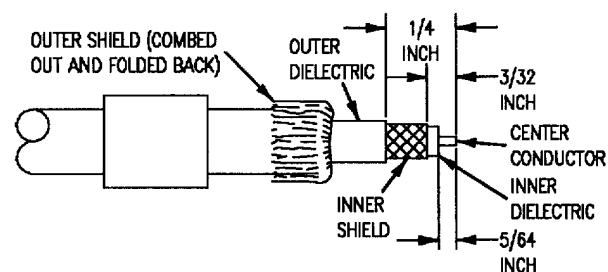
F/A-18-WRM-(343-1)02-CAT1

- c. Comb out outer shield and fold back over jacket.

CAUTION

To prevent premature failure of connector, do not nick center conductor while trimming dielectric.

- d. Strip outer dielectric, inner shield and inner dielectric, using cable strippers 45-163.



F/A-18-WRM-(343-2)02-CAT1

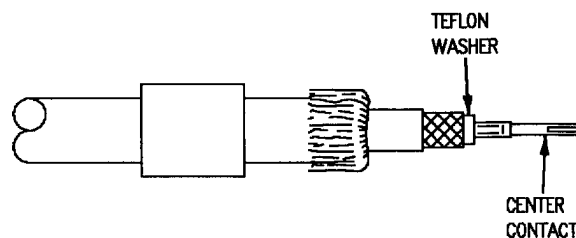
Figure 18. 902-5019-2 Triaxial Assembly Procedure (Sheet 1)

e. Slide teflon washer over center conductor until it butts against the inner dielectric.

f. Slide center contact over center conductor until it butts against the teflon washer. Center conductor must be visible through inspection hole of contact.

g. Crimp center contact using M22520/5-01

■ Crimping Tool and Y308 Die Set, closure C.

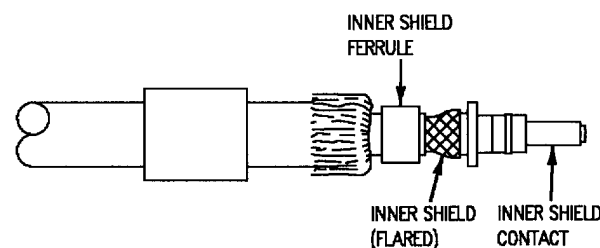


F/A-18-WRM-(1090-1)02-CATI

h. Slide inner shield contact over inner dielectric and under inner shield until it stops.

i. Flare inner shield.

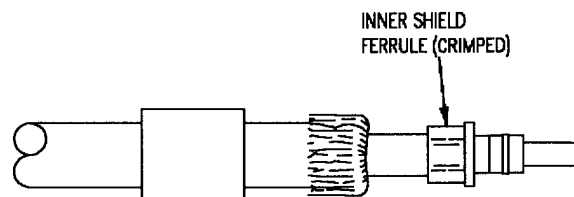
j. Trim inner shield at shoulder of inner shield contact.



F/A-18-WRM-(1090-2)02-CATI

k. Slide inner shield ferrule over inner shield until it butts against shoulder of inner shield contact and crimp in place using M22520/5-01 Crimping Tool and

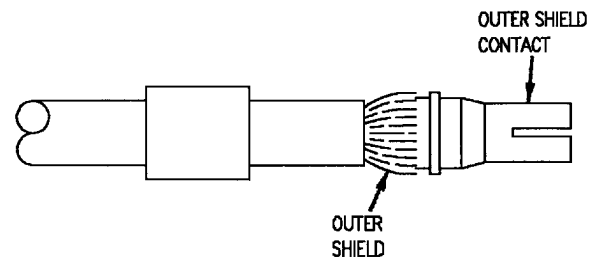
■ Y308 Die Set, closure B.



F/A-18-WRM-(1090-3)02-CATI

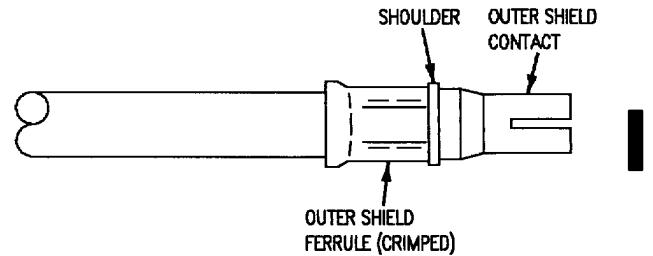
Figure 18. 902-5019-2 Triaxial Assembly Procedure (Sheet 2)

l. Slide outer shield contact over inner shield contact until it stops and fold outer shield forward over outer shield contact and trim outer shield at shoulder.



F/A-18-WRM-(1090-4)02-CATI

m. Slide outer shield ferrule over outer shield until it butts against the shoulder of the outer shield contact and crimp in place using M22520/5-01 Crimping Tool and Y308 Die Set, closure A.



F/A-18-WRM-(1090-5)02-CATI

Figure 18. 902-5019-2 Triaxial Assembly Procedure (Sheet 3)

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M22TR10XP6N-H2 (MIL-C-26482)****COAX CONNECTOR REPAIR**

Reference Material

Avionics Cleaning and Corrosion Prevention Control	NAVAIR 16-1-540
Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Stripping Tools	WP010 00
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

78P-E001B

26

1. DESCRIPTION.

2. The M22TR10XP6N-H2 is a straight electrical connector, with multi-pin coax contacts.

3. Each connector part number is supported by an illustration which represents the contact arrangement, a reference designation list and tables containing tooling and parts data.



Unwired connector cavities shall have a sealing plug installed to prevent water intrusion.

Support Equipment Required

Part Number or Type Designation	Nomenclature
CM264-22	CM Adapter Tool
3308AS100	Repair Set-Wire and Connector

Materials Required

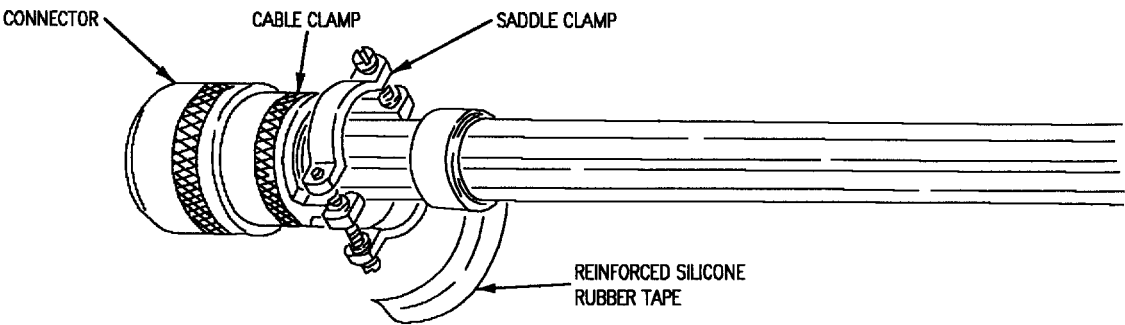
Specification or Part Number	Nomenclature
See Table 1	Reinforced Silicone Rubber Tape
H-B-643,TYPE 2, CLASS 1, SIZE 1	Brush, Acid Swab
TT-I-735 GRADE B	Isopropyl Alcohol

4. CORROSION CONTROL.

a. For cleaning and anticorrosion methods, refer to NAVAIR 16-1-540.

5. CABLE CLAMP DISASSEMBLY PROCEDURE.

- a. Loosen saddle clamp.
- b. Remove reinforced silicone rubber tape buildup and discard. See figure 1.

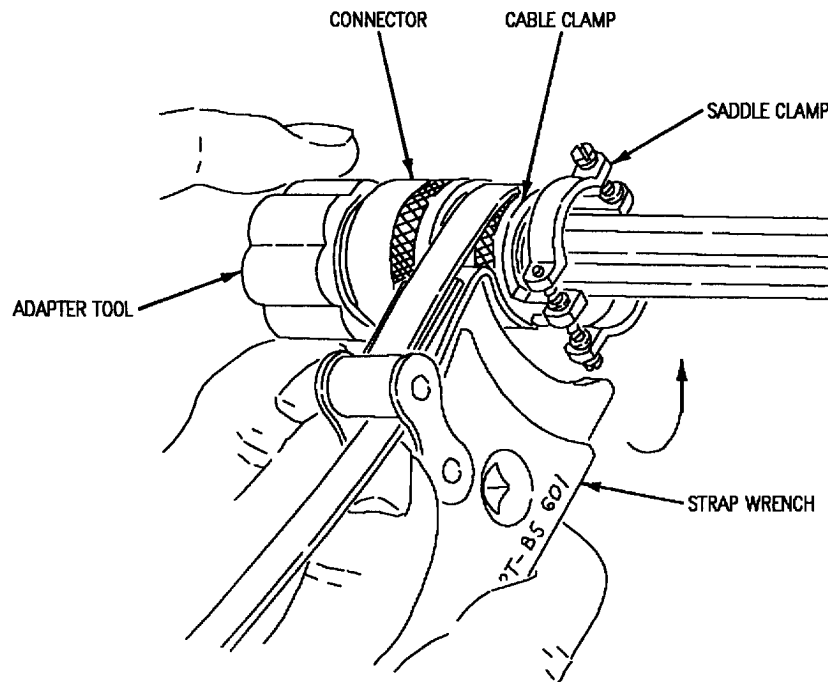


F/A-18-WRM-(885-1)02-SCAN

Figure 1. Removing Reinforced Silicone Rubber Tape Buildup

c. Position strap wrench and adapter tool on connector.

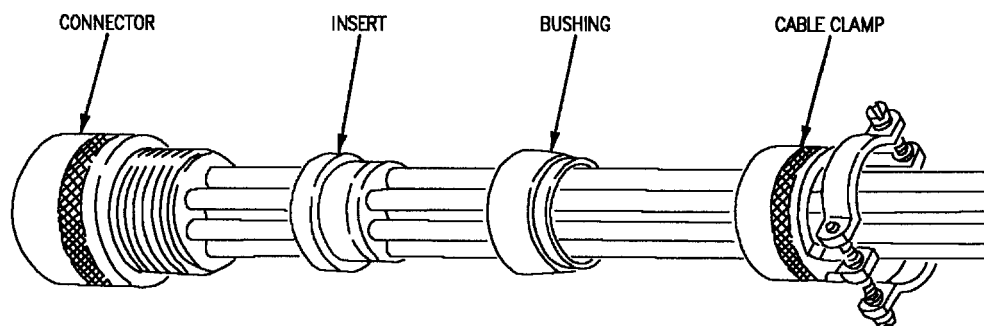
d. Loosen and remove cable clamp from connector. See figure 2.



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Figure 2. Cable Clamp Removal

e. Slide cable clamp, bushing and insert back over cable assembly. See figure 3.



F/A-18-WRM-(885-3)02-SCAN

Figure 3. Cable Clamp Disassembly

6. WIRE PREPARATION.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

- a. Cut wire to required length.
- b. Determine correct strip dimension in table 2 contact data in the correct connector data figure number. The connector figure number is listed in the Reference Designation to Figure Number Index within this work package.

NOTE

Determine the wire types of the wire, using the applicable Cable/Wiring Assembly Data Work Package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.



For a detailed explanation of wire strippers see WP010 00.

- c. Select the correct wire strippers for the wire by referring to the Wire Type List WP004 00 for the particular wire type used.

7. TOOL APPLICATION PROCEDURE.

8. CM ADAPTER TOOLS.

- a. Use adapter tool shown in figure 4.

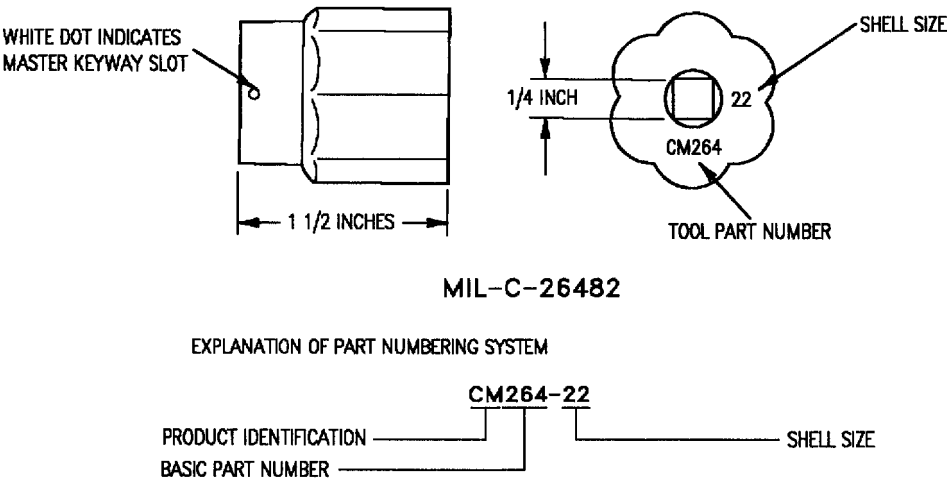


Figure 4. CM Adapter Tool

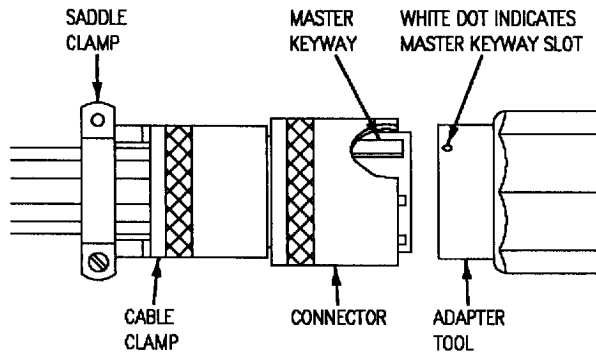


White dot on adapter tool must be in line with master key of connector before insertion. Spinning the adapter tool onto connector until it slips into place causes unnecessary wear to tools, keys and keyways.

NOTE

T-Handle can be used for additional gripping force to adapter if required.

- b. Mate adapter tool to connector. See figure 5.

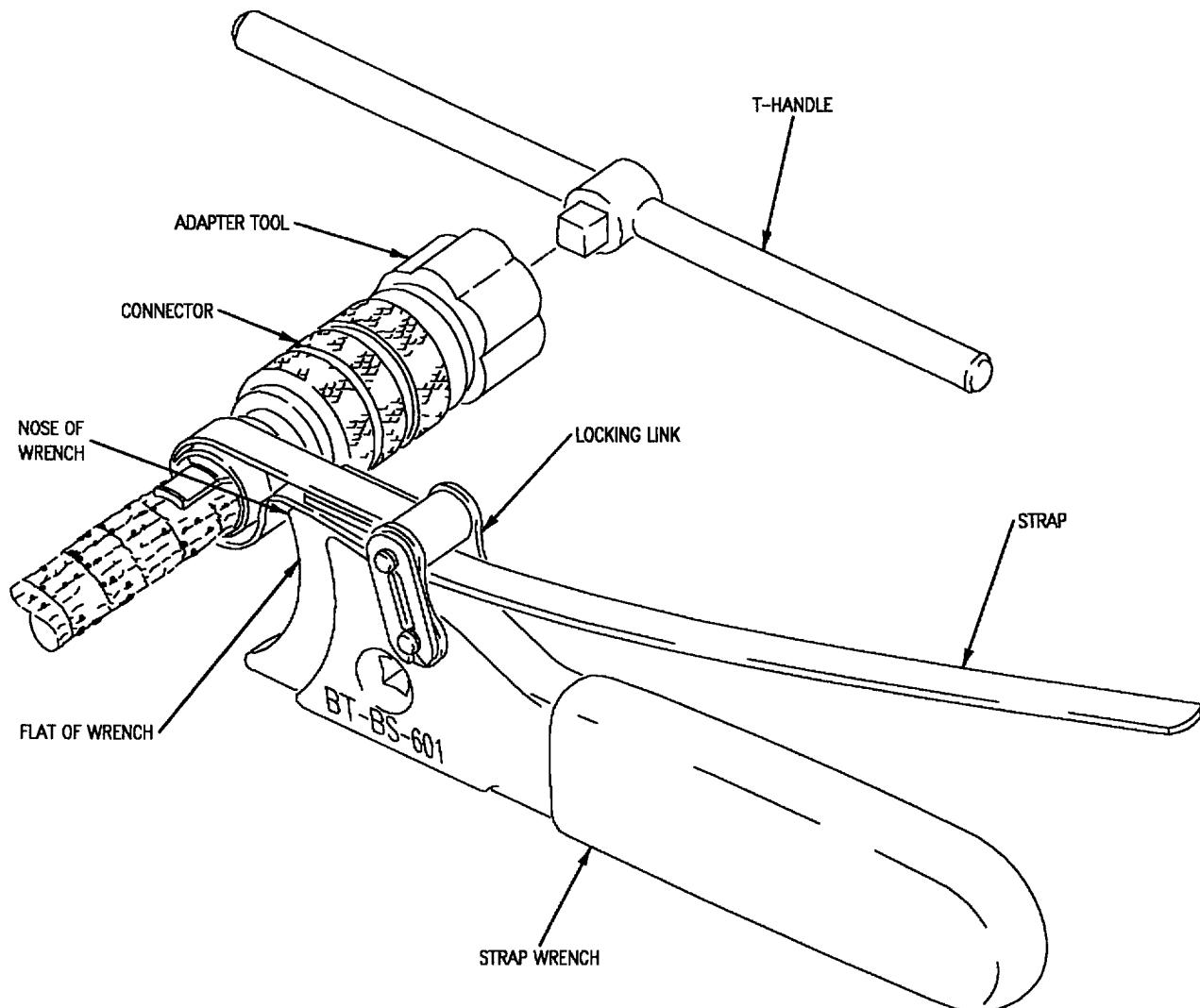


F/A-18-WRM-(889-1)02-CATI

Figure 5. Adapter Tool Mating

9. STRAP WRENCH.

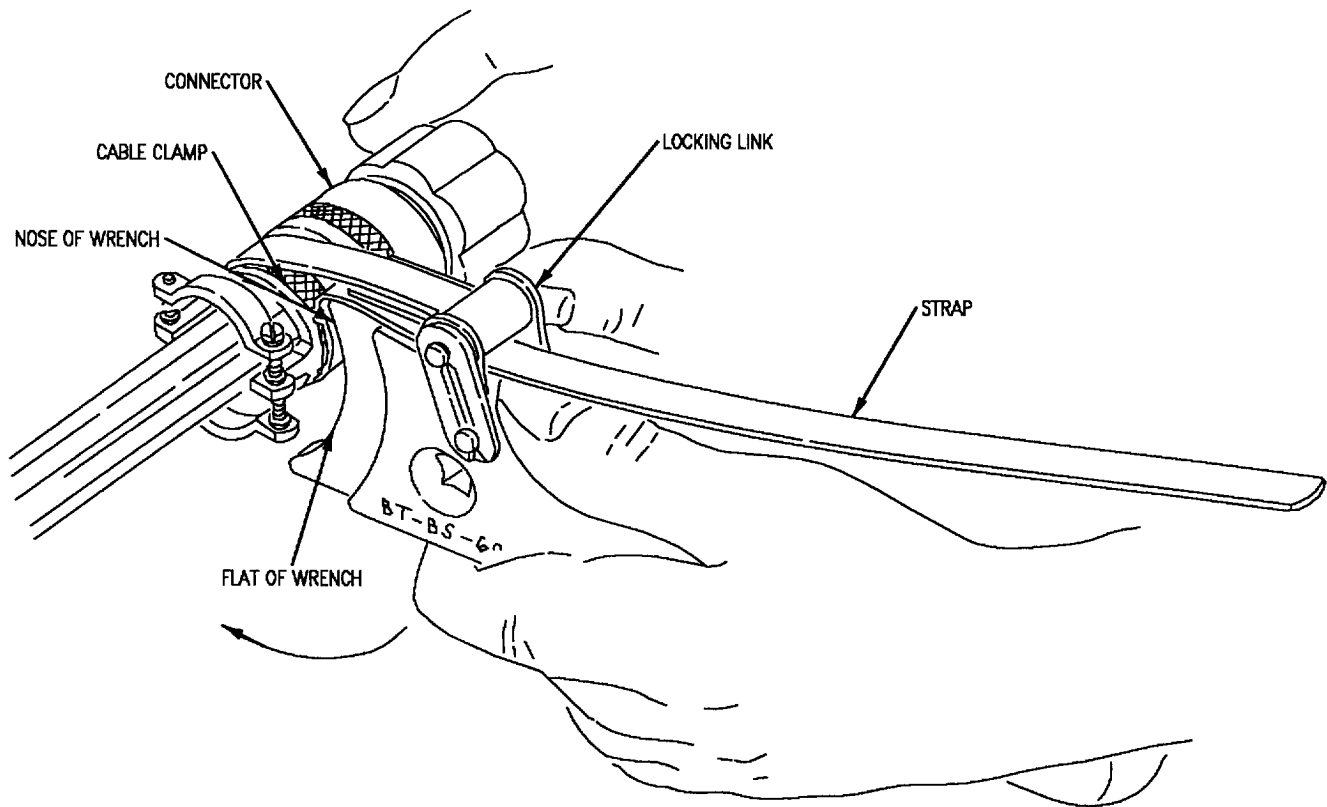
a. Install strap wrench around cable clamp. Draw strap tight and through the locking link so cable clamp and strap rest on nose of wrench. See figure 6.



F/A18-WRM-000-(281-1)01-SCAN 40

Figure 6. Strap Wrench Setup and Adjustment

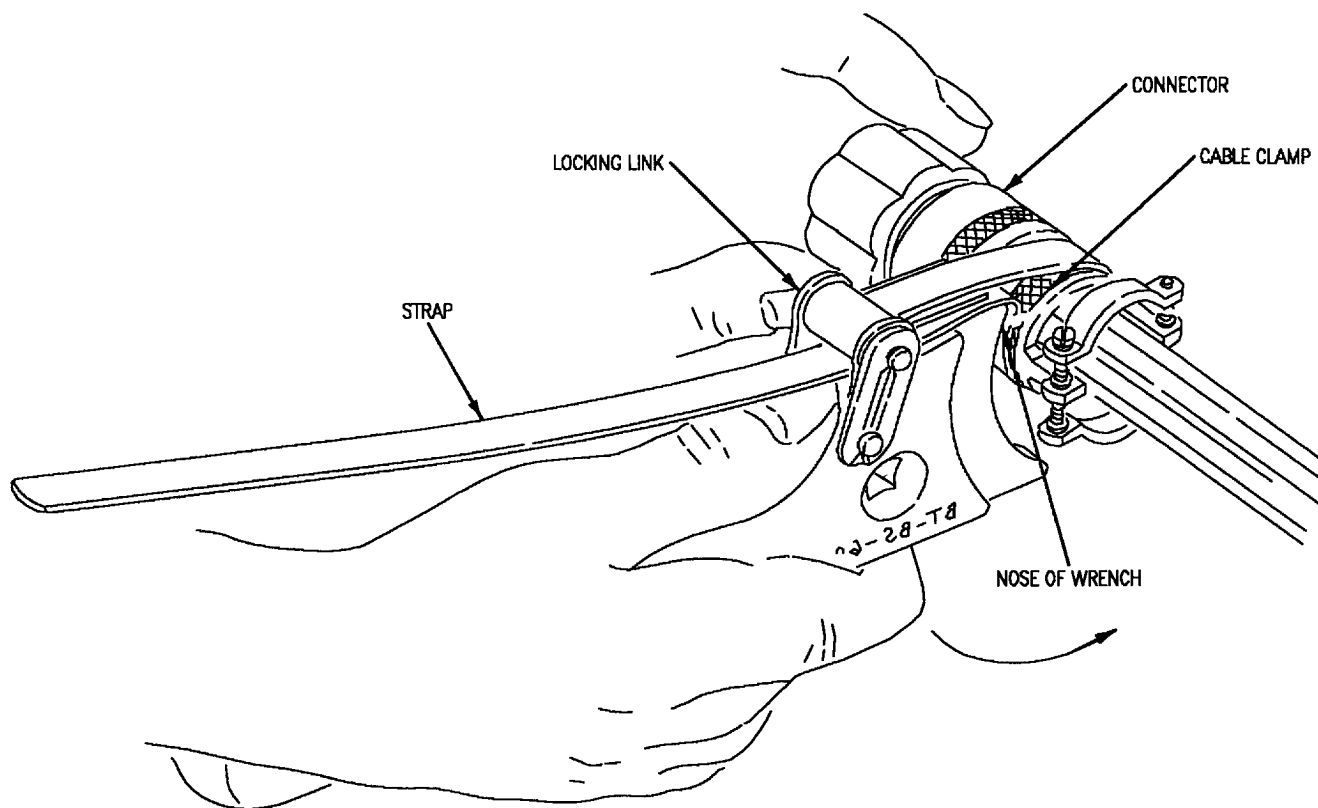
b. Tightening cable clamp is accomplished with the setup shown in figure 7. Apply force in a clockwise direction as viewed from the rear of the connector. The cable clamp and strap are tucked beneath the nose of the wrench and against the flat.



F/A-18-WRM-(885-4)02-SCAN

Figure 7. Tightening Position of Wrench

c. Loosening is accomplished with the setup shown in figure 8. Apply force in a counterclockwise direction as viewed from the rear of the connector. The cable clamp and strap are tucked beneath the nose of the wrench and against the flat.



F/A-18-WRM-(885-5)02-SCAN

Figure 8. Loosening Position of Wrench

10. INSERTION OF COAX CONTACT INTO CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If cable clamp requires disassembly, go to paragraph 5 this work package.

WARNING

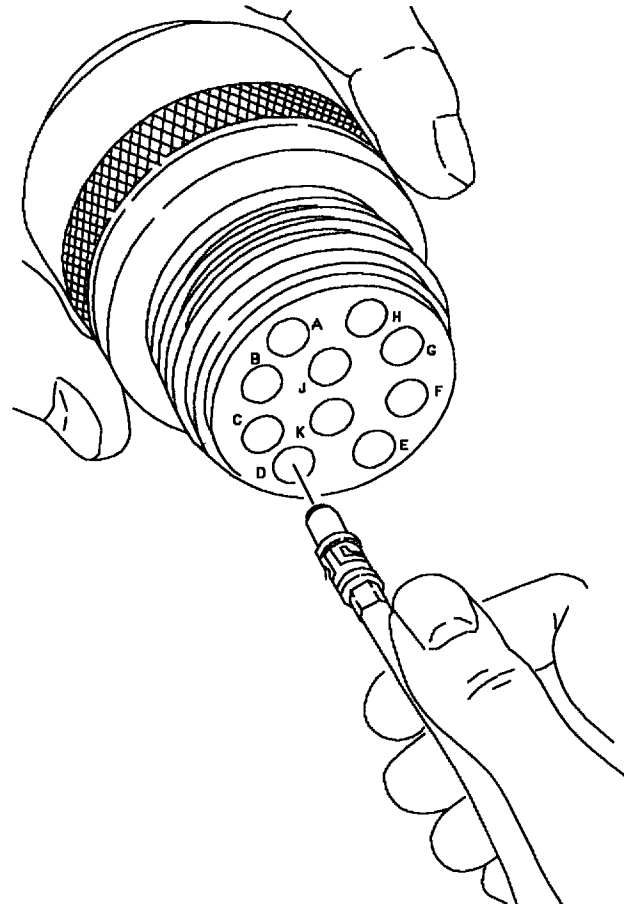
Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

b. Isopropyl alcohol may be used as a lubricant for insertion of contacts. Apply by brushing on connector insert grommet face or by dipping.

NOTE

Insertion of coax contacts is to be done by hand.

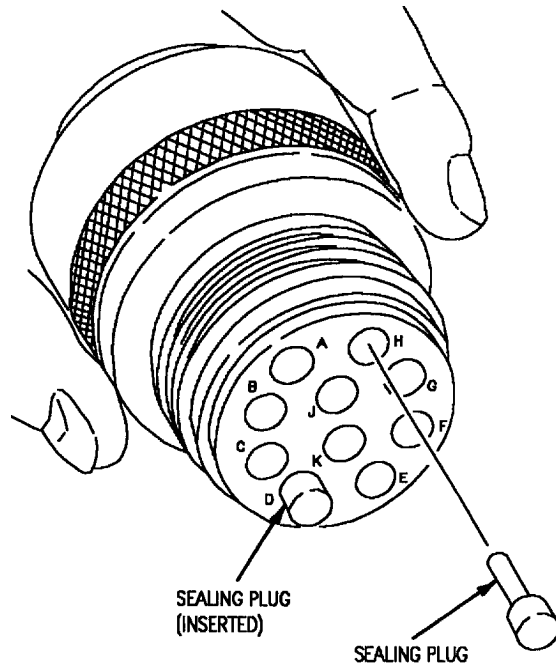
c. At right angle to connector insert, align contact with cavity in connector and press contact firmly to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 9.



F/A-18-WRM-(774-1)02-SCAN

Figure 9. Inserting Coax Contacts into Connector

d. Fill all unused contact cavities with sealing plug, small diameter first, until it bottoms against contact cavity. See figure 10.



F/A-18-WRM-(774-2)02-SCAN

Figure 10. Inserting Sealing Plug(s) into Connector

11. WIRED COAX CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If cable clamp requires disassembly, do paragraph 5 this WP.

b. Select removal tool specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

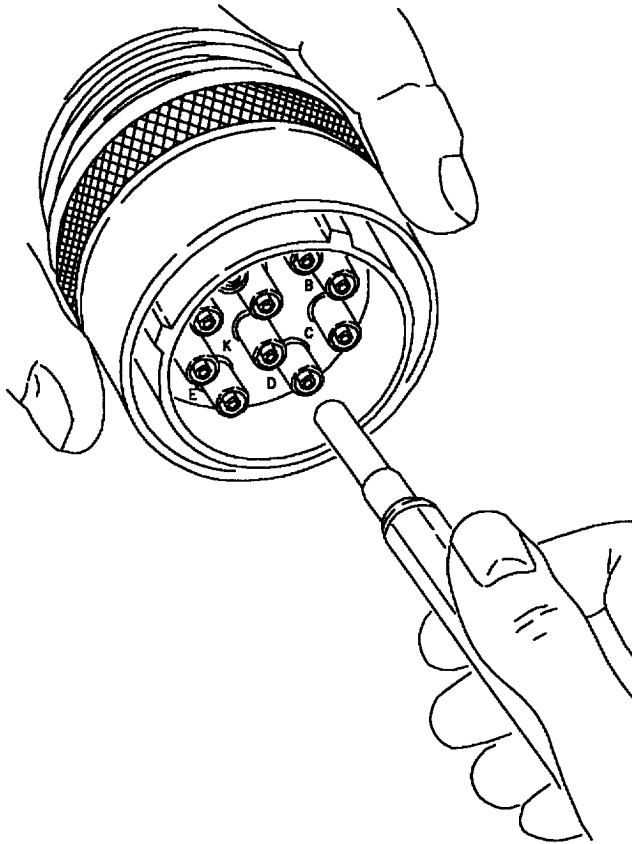
CAUTION

Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Working from front (mating end) of connector, slide hollow end of removal tool over contact to be removed.

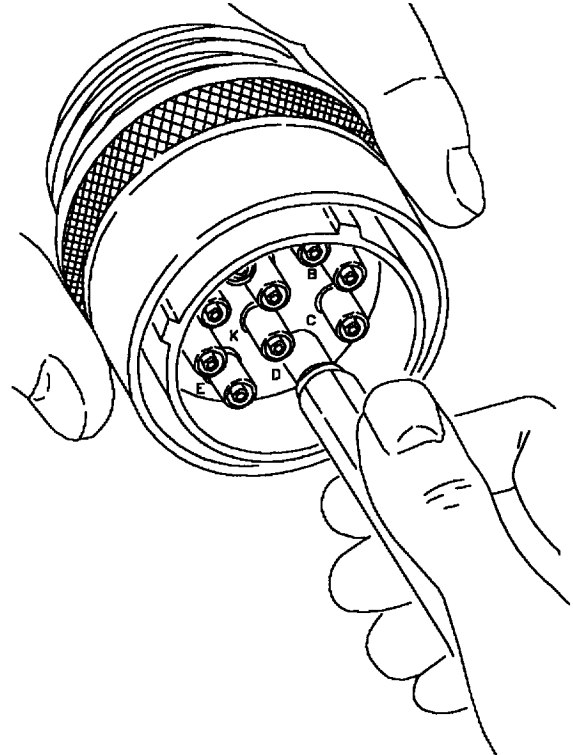
e. Holding removal tool at a right angle to front insert face, push tool straight toward rear of connector, firmly pressing tool to positive stop when it bottoms in insert cavity. See figure 11.



F/A-18-WRM-(774-3)02-SCAN

Figure 11. Unlocking Coax Contact Mechanism

f. Maintain pressure on tool handle and slide collar of tool forward until it stops. Contact shall be partially ejected from rear of connector insert. See figure 12.

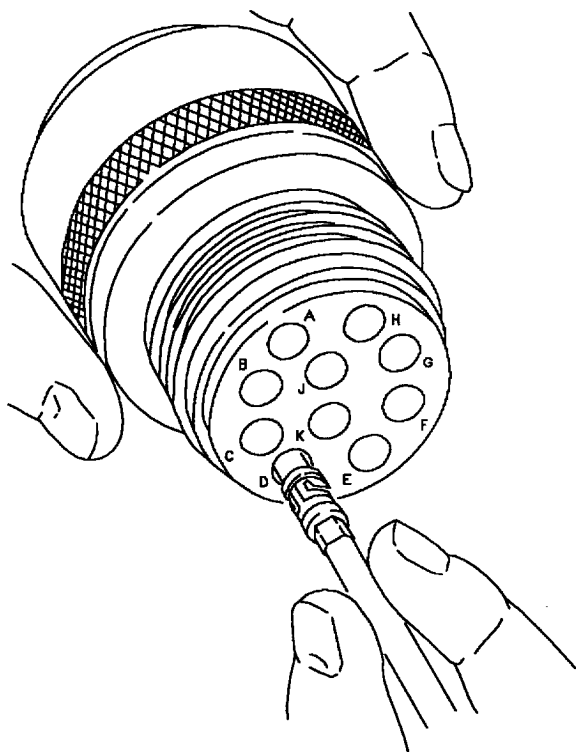


F/A-18-WRM-(774-4)02-SCAN

Figure 12. Removing Coax Contact from Connector

g. Remove tool from contact cavity by pulling straight back to clear connector insert face.

h. Remove contact from rear of connector. See figure 13.



F/A-18-WRM-(774-5)02-SCAN

Figure 13. Extracting Wired Coax Contact from Connector

12. COAX REPAIR PROCEDURES.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, go to paragraph 5, this work package.

13. COAXIAL CABLE STRIPPERS 45-163 ADJUSTMENT AND USE.

NOTE

For detailed operation of coaxial wire strippers see WP010 00.

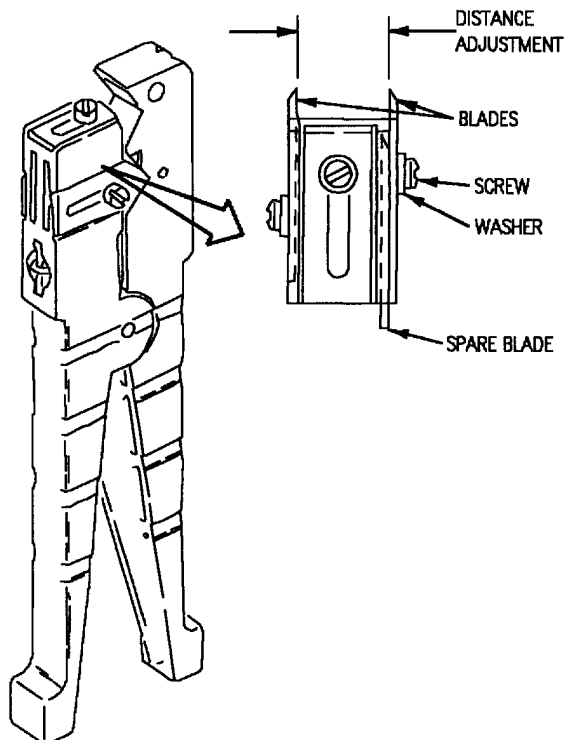
14. DISTANCE ADJUSTMENT.

- Measure distance between blades. See figure 14.
- Remove screws and add or subtract spare blades as required to get correct distance.

NOTE

Adding or subtracting two spare blades will change distance between blades 3/64-inch.

- Install screws and tighten finger tight.
- Adjust depth of cut.



F/A-18-WRM-(409-2)01-SCAN

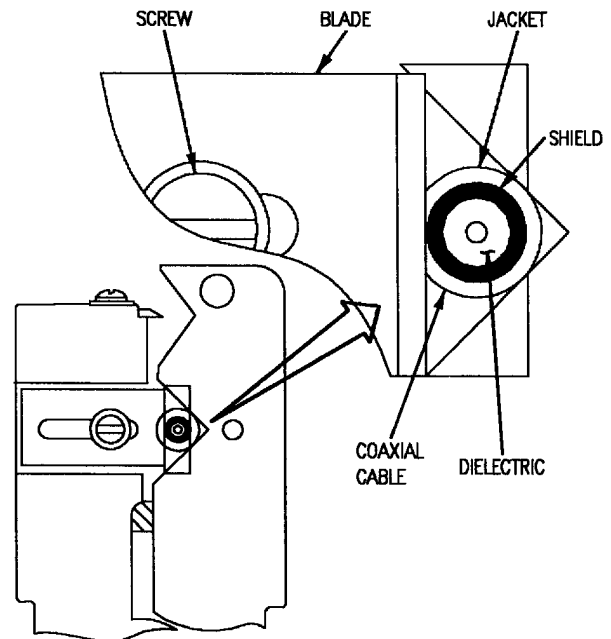
Figure 14. Distance Adjustment

15. CUT ADJUSTMENT.

NOTE

A test strip should be done on spare coax before stripping coax to be used.

- Position coaxial cable in stripper until the end butts against the blade. See figure 15.
- Adjust blade until it cuts through jacket without nicking shield and tighten screw.



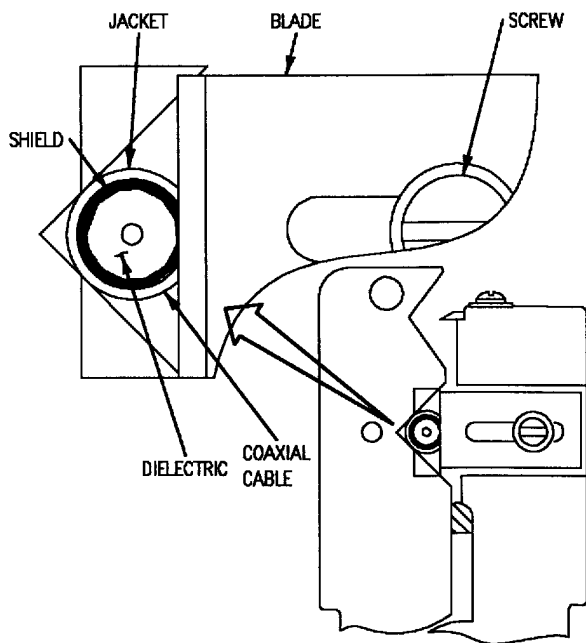
F/A-18-WRM-(409-3)01-CATI

Figure 15. Jacket Cut Adjustment

c. Remove coaxial cable and insert into other side of stripper until the end butts against the remaining blade. See figure 16.

d. Adjust blade so it cuts through shield without damaging dielectric.

e. If required, repeat steps 15a through 15d until blades cut through jacket and shield without damaging shield and dielectric.



F/A-18-WRM-(409-4)01-CATI

Figure 16. Shield Cut Adjustment**16. USE.**

a. Position stripper on cable so that blades face down. See figure 17.

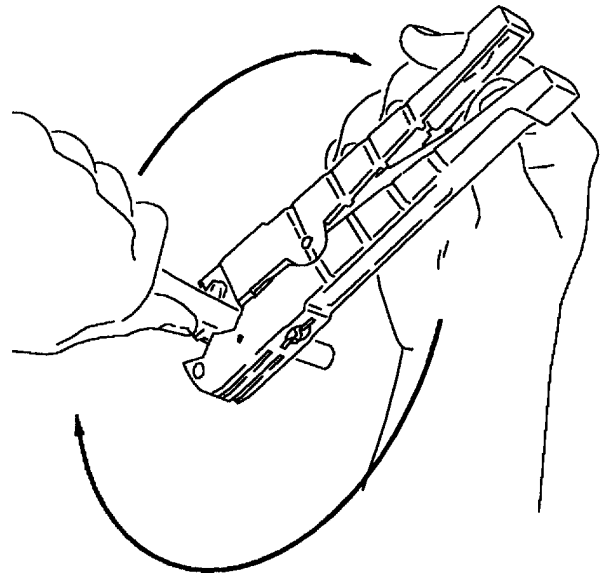
NOTE

Rotating stripper in wrong direction may cause stripper to jump off cable.

b. Rotate stripper on cable by pressing handle on blade side of stripper. Six to eight rotations will be required to finish cut.

c. Remove stripper from cable.

d. Remove stripped jacket and shield.



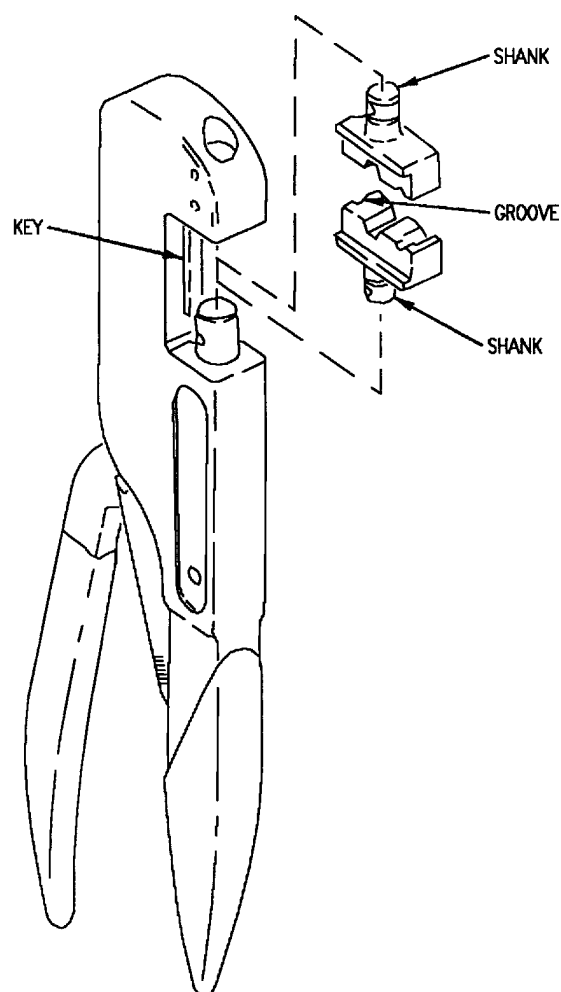
F/A-18-WRM-(409-1)01-SCAN

Figure 17. Operation

17. CRIMP TOOL M22520/5-01 ASSEMBLY AND USE.

18. DIE INSTALLATION.

a. Align groove in die with key in crimping tool and push shank of die into hole. See figure 18.



F/A-18-WRM-(410-2)01-SCAN

Figure 18. Die Installation

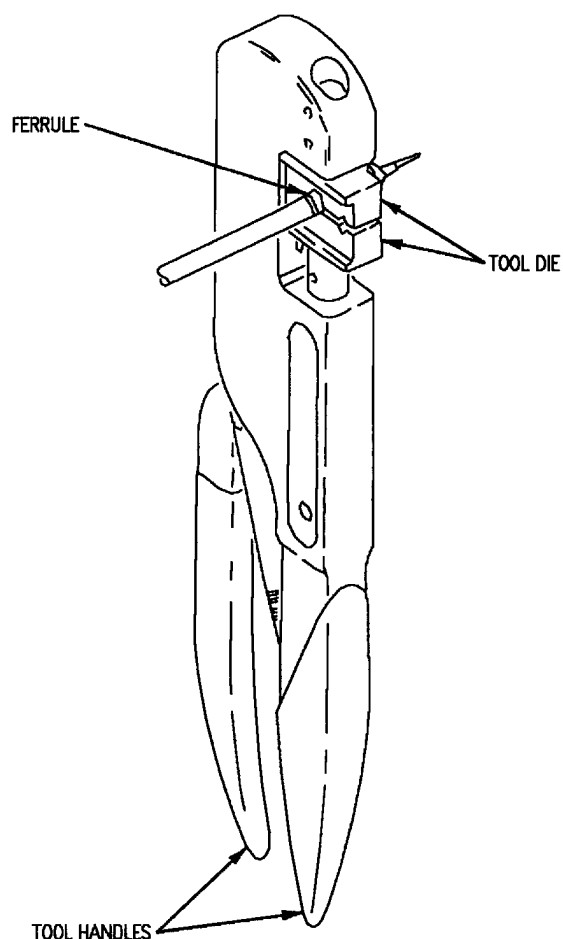
b. Close handle to make sure dies are seated and locked in place.

19. CRIMP PROCEDURE.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Slide outer ferrule over braided shield. Crimp figure 19.



F/A-18-WRM-(410-1)01-SCAN

Figure 19. Crimp Positioning

b. Squeeze tool handles until ratchet releases.

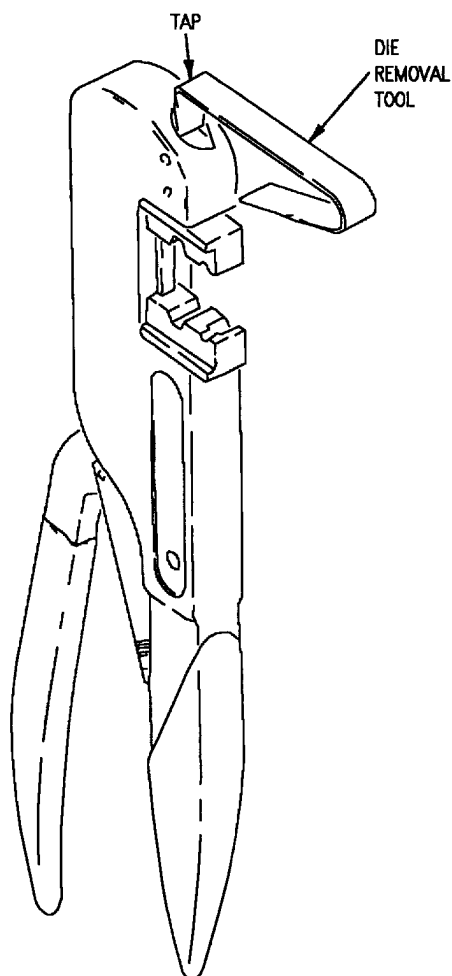
c. Open handles and remove ferrule assembly and inspect crimp.

20. DIE REMOVAL.

NOTE

Die removal tool is furnished with crimping tool. If removal tool is not available, a rod 3/16-inches in diameter may be used.

a. With crimping tool handle open, place die removal tool against end of knock-out pad and tap gently. See figure 20.

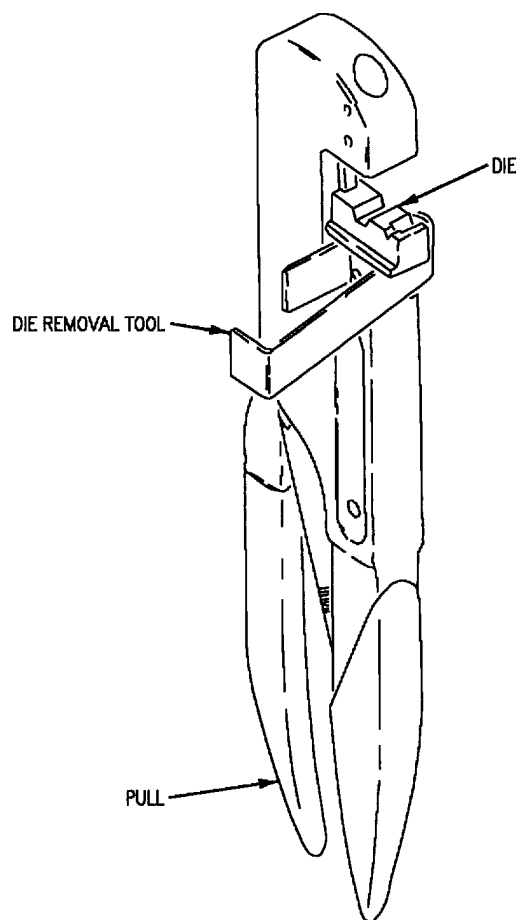


F/A-18-WRM-(410-3)01-SCAN

Figure 20. Upper Die Removal

b. The die will be released from the lock spring and ejected 1/16-inch. The die can now be removed by hand.

c. Close the crimping tool handle and slide the die removal tool between the die and tool body. See figure 21.



F/A-18-WRM-(410-4)01-SCAN

Figure 21. Lower Die Removal

d. Pull handle open with snap action. The die will be released from the lock spring and can then be removed by hand.

21. CABLE CLAMP REASSEMBLY PROCEDURE.

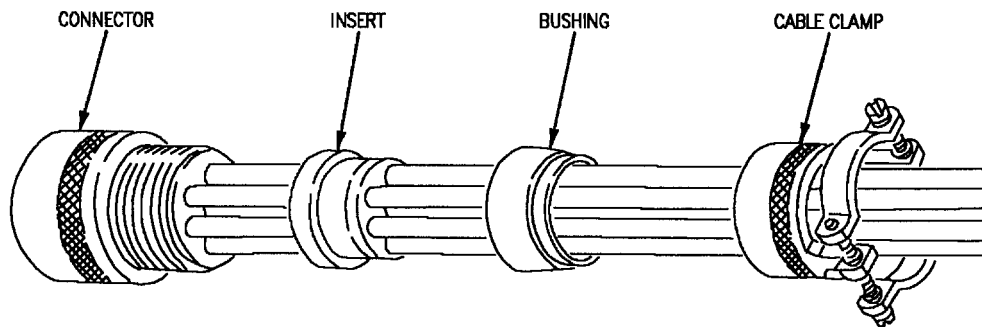
WARNING

Isopropyl alcohol is highly flammable and toxic. Do not use near open flame or sparks. Use only in well ventilated areas.

a. Isopropyl alcohol may be used as a lubricant. Apply by brushing on insert.

b. Slide insert and bushing into connector.

c. Slide cable clamp onto connector and screw into place (hand tighten). See figure 22.

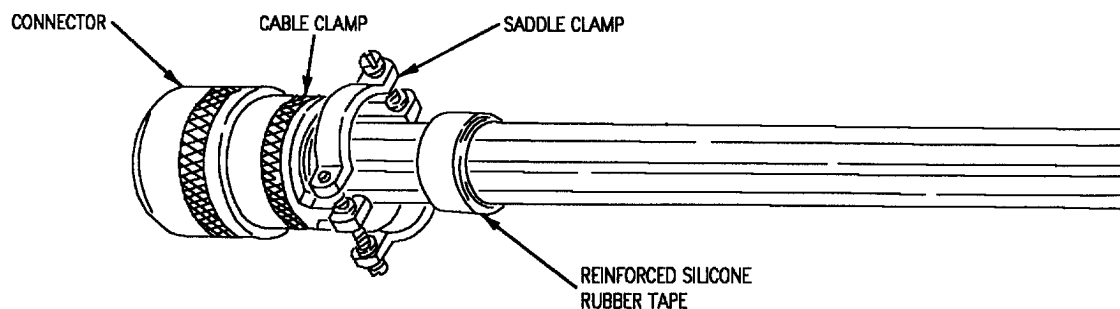


F/A-18-WRM-(885-3)02-SCAN

Figure 22. Cable Clamp Assembly

d. Build up cable assembly diameter under saddle clamp with reinforced silicone rubber tape (table 1) to

provide good clamping between saddle clamp and cable assembly. See figure 23.



F/A-18-WRM-(885-6)02-SCAN

Figure 23. Reinforced Silicone Rubber Tape Buildup

Table 1. Reinforced Silicone Rubber Tape

PART NUMBER	CAGE	WIDTH (INCH)
S-25	07099	1/2
S-80	07099	1/2
REINFORCED WITH FIBERGLASS SELF - BONDING TAPE COMES IN ROLLS COLOR - BLACK TEMPERATURE RANGE: -178° TO +500°F		



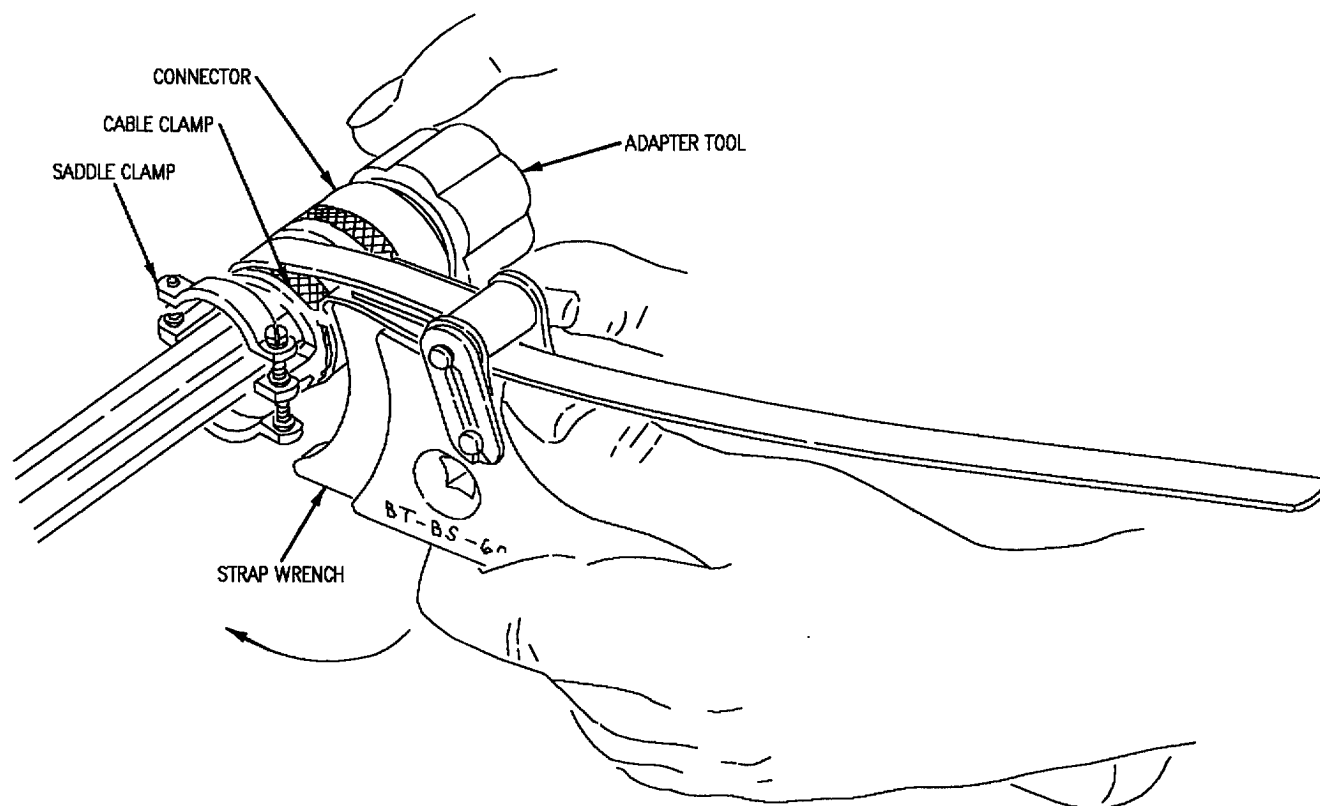
f. Tighten cable clamp on connector by turning clockwise a quarter turn. See figure 24.

NOTE

Leave 2 threads exposed, allowing 1/16-inch gap between saddle clamp when fully tightened.

Make sure cable clamp does not touch wires.

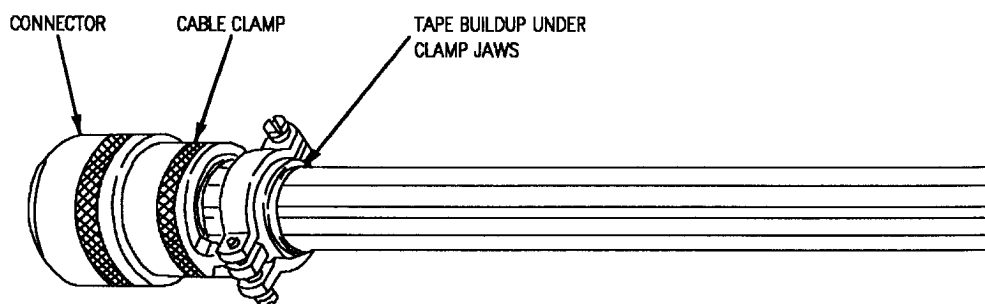
e. Position strap wrench and adapter tool on connector.



F/A-18-WRM-(885-7)02-SCAN

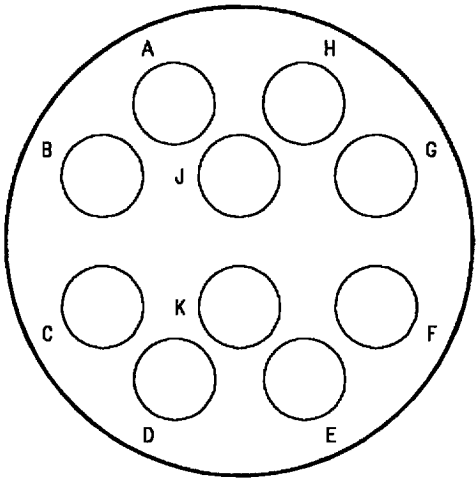
Figure 24. Installation of Cable Clamp

g. Tighten saddle clamp. See figure 25.



F/A-18-WRM-(885-8)02-SCAN

Figure 25. Installing Saddle Clamp



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(783-1)02-CATI

Reference Designation to Backshell Data Index for M22TR10XP6N-H2 Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
78P-E001B	B22SR	Para 5 and 21 this WP

Figure 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M8ND
Die Set(Center Contact)	N22RVMT-10 (Cavity 22)
Die Set(Outer Ferrule)	N22RVMT-10 (Cavity 110)
Insertion Tool	N/A
Removal Tool	RX8-1

Table 2. Contact Data

CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
E and H B, C, F and G A, D, J and K (BLANK)	See figure 27	700-168D28 700-170D28	MS27488-12

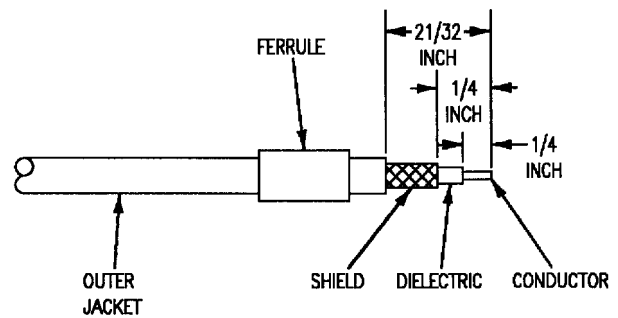
Figure 26. M22TR10XP6N-H2 Connector

CAUTION

To prevent damage to aircraft wiring or equipment disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24VDC battery voltage consists in some wiring.

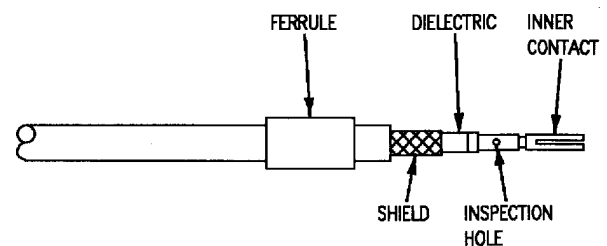
When stripping cable, only amount of material necessary shall be removed. Do not cut too deep; braided shield or insulation may be damaged. Strip dimensions shall be as accurate as possible. Incorrect strip dimensions are the greatest cause of contact failure.

a. Slide ferrule over outer jacket. Using coax cable strippers remove outer jacket and braided shield as shown. Using sharp knife trim dielectric as shown.



F/A-18-WRM-(784-1)02-CATI

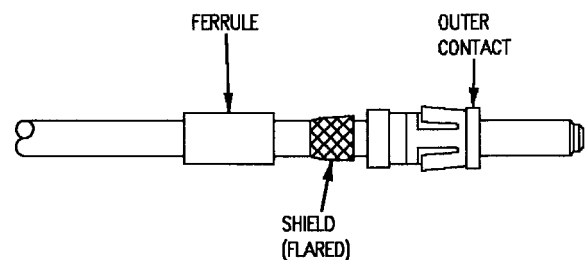
b. Slide inner contact over conductor until it butts against dielectric. Conductor must be visible through inspection hole of inner contact. Using M22520/5-01 Crimping tool and Y460S Closure B, crimp inner contact.



F/A-18-WRM-(784-2)02-CATI

c. Flare shield

d. Slide outer contact over inner contact from coaxial cable. Slide inner contact against shoulder of outer contact as shown.

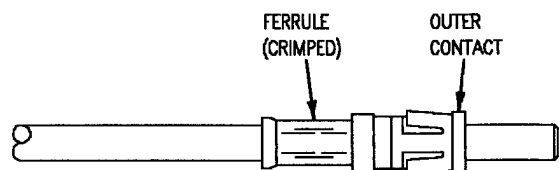


F/A-18-WRM-(784-3)02-CATI

Figure 27. 700-168D28 and 700-170D28 Coax Contact Assembly Procedure (Sheet 1)

e. Slide ferrule over shield until it butts against shoulder of outer contact.

f. Crimp ferrule over shield using M22520/5-01 crimping tool and Y460S closure B.



F/A-18-WRM-(784-4)02-CATI

**Figure 27. 700-168D28 and 700-170D28 Coax Contact Assembly Procedure
(Sheet 2)**

ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE**WIRING REPAIR WITH PARTS DATA****M83723-76A2232N (MIL-C-83723 SERIES 3)****CONNECTOR REPAIR**

Reference Material

Avionics Cleaning and Corrosion Prevention Control	NAVAIR 16-1-540
Electrical System	A1-F18AC-420-300
Utility Battery and Charger Unit or Utility Battery	WP019 00
Emergency Battery and Charger Unit or Emergency Battery	WP020 00
Wiring Repair With Parts Data, General Wiring Repair Procedures	A1-F18AC-WRM-000
Protective Boot Installation for Environmental Type Connectors With Metal Clamps	WP080 00
Stripping Tools	WP010 00
Wire Type List	WP004 00

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Record of Applicable Technical Directives

None

Reference Designation to Figure
Number IndexReference
Designation

Figure No.

1 64P-E001Q

21

2 64P-E001Q

35

(WP182 00)

LEGEND

1 161353 THRU 161528

2 161702 AND UP

1. DESCRIPTION.

2. The MIL-C-83723, Series 3, electrical connectors are bayonet coupling, circular environmental resistant type connectors. They have removable rear release type contacts and are capable of operation within temperature limits of -85° F to +200° F.

3. Each connector part number is supported by an illustration which represents the contact arrangement, a reference designation list and tables containing tooling and parts data.



Unwired connector cavities shall have a sealing plug installed to prevent water intrusion.

NOTE

The unwired coax contact cavities in connector 64P-E001Q shall all have a sealing plug installed.

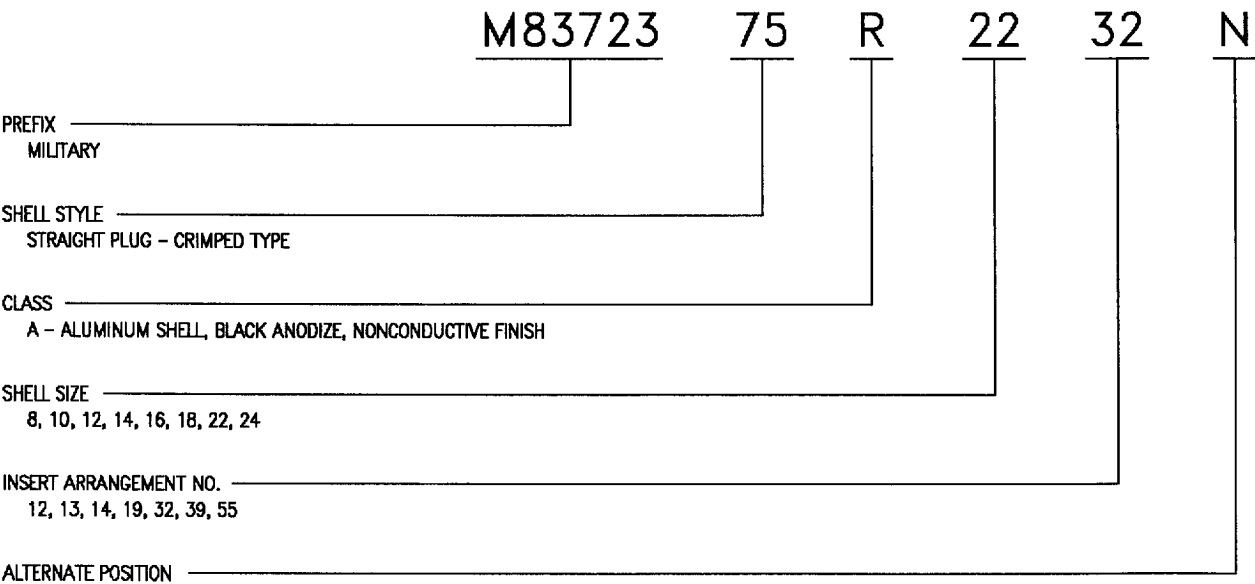
4. See figure 1 for a breakdown of the military part numbering system for MIL-C-83723, Series 3, connectors used on F/A-18 aircraft.

Support Equipment Required

Part Number or Type Designation	Nomenclature
3308AS100	Repair Set-Wire and Connector

Materials Required

Specification or Part Number	Nomenclature
TT-I-735 GRADE B	Alcohol, Isopropyl



F/A-18-WRM-(200-6)02-CATI

Figure 1. Military Part Numbering System for MIL-C-83723, Series 3, Connectors

5. CORROSION CONTROL.

a. For cleaning and anticorrosion methods, refer to NAVAIR 16-1-540.

6. REPAIR PROCEDURE.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

7. WIRE PREPARATION.

CAUTION

To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. Cut wire to required length.

b. Determine correct strip dimension in table 2 contact data in the correct connector data figure number. The connector figure number is listed in the Reference Designation to Figure Number Index within this work package.

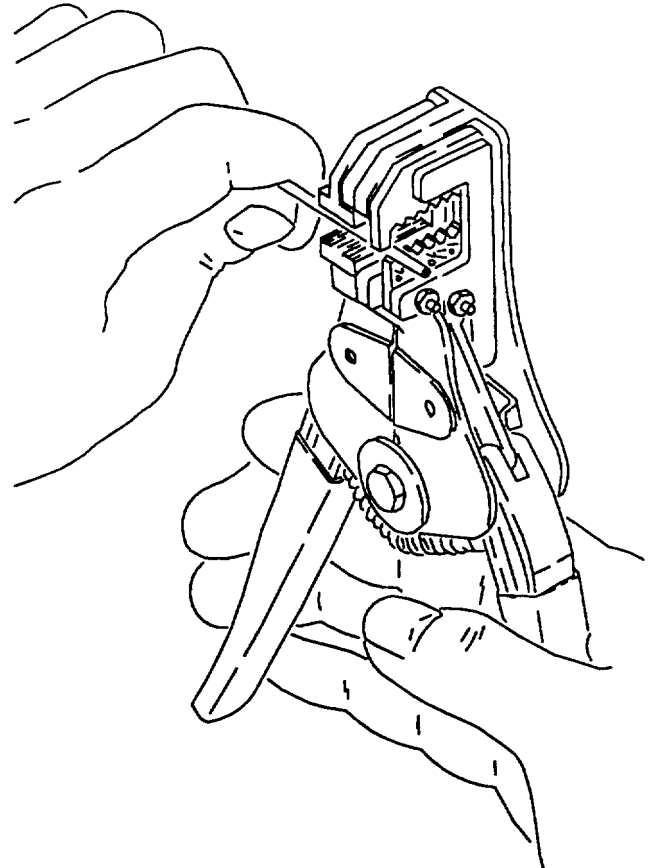
NOTE

Determine the wire types of the wire, using the applicable Cable/Wiring Assembly Data Work Package in volumes A1-F18AC-WRM-010 through A1-F18AC-WRM-070.

For a detailed explanation of wire strippers see WP010 00.

c. Select the correct wire strippers for the wire by referring to the Wire Type List WP004 00 for the particular wire type used.

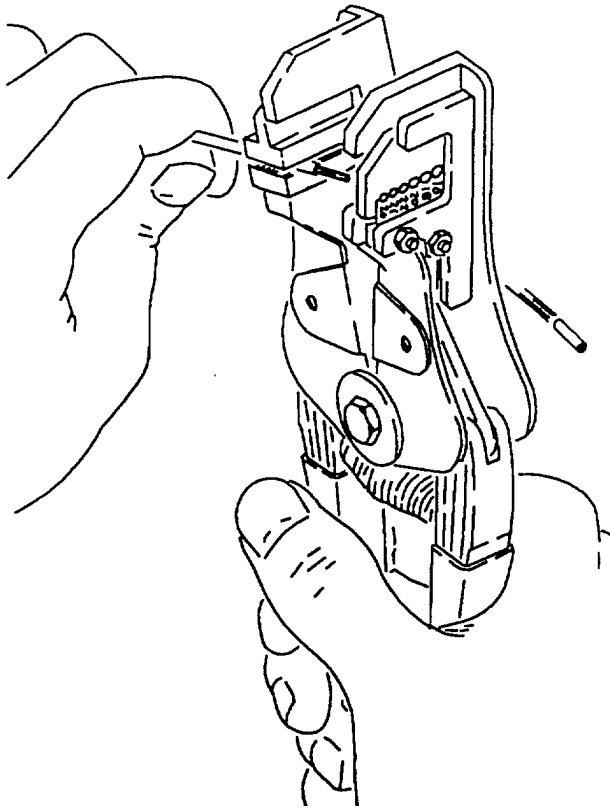
d. Insert wire into exact center of correct cutting slot for wire size to be stripped (each slot is marked with wire size). See figure 2.



F/A-18-WRM-(401-1)01-SCAN

Figure 2. Placing Wire in Slot of Stripping Tool

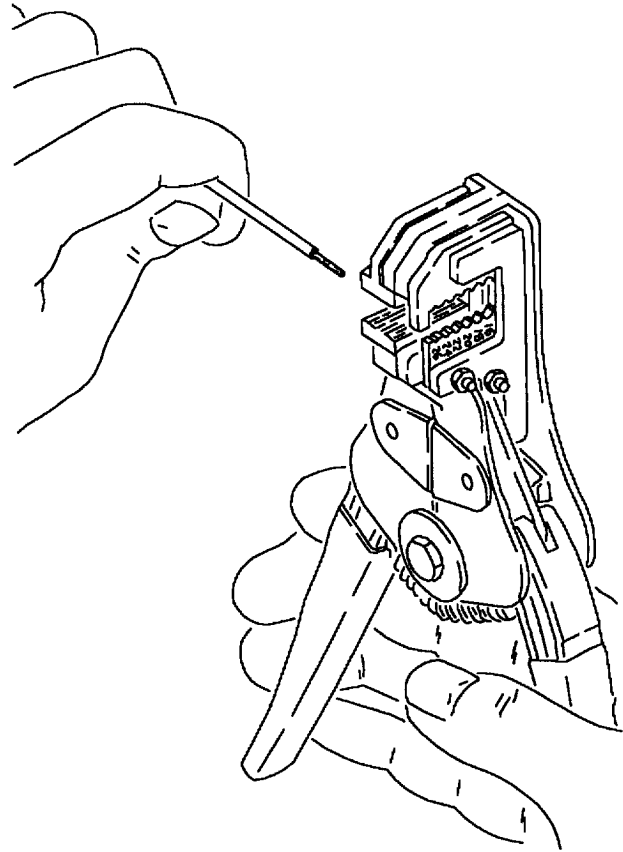
e. Close handles together as far as they will go. See figure 3.



F/A-18-WRM-(402-1)01-SCAN

Figure 3. Removing Insulation

f. Remove wire while releasing handles, allowing wire holder to return to open position. See figure 4

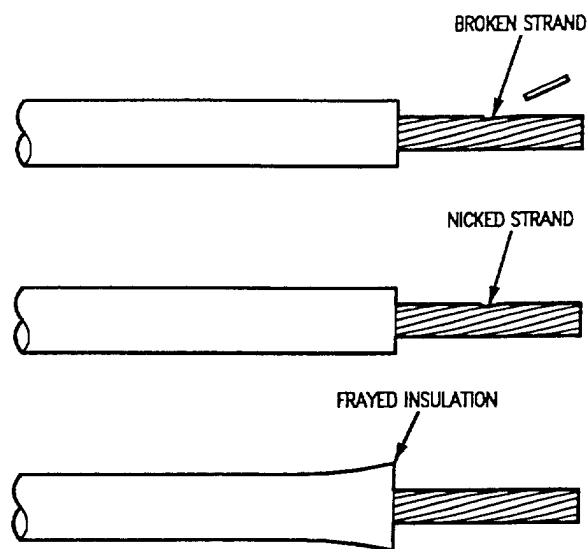


F/A-18-WRM-(403-1)01-SCAN

Figure 4. Stripping Completed

g. After stripping, twist strands of wire firmly together in the same direction as the normal lay of the wire.

h. Conditions shown in figure 5 are unacceptable.



F/A-18-WRM-(404-1)01-CAT I

8. CRIMP TOOL HANDLE M22520/1-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

a. Select crimp tool handle and positioner specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

Figure 5. Unacceptable Conditions

9. REMOVAL AND INSTALLATION OF TURRET HEAD.

NOTE

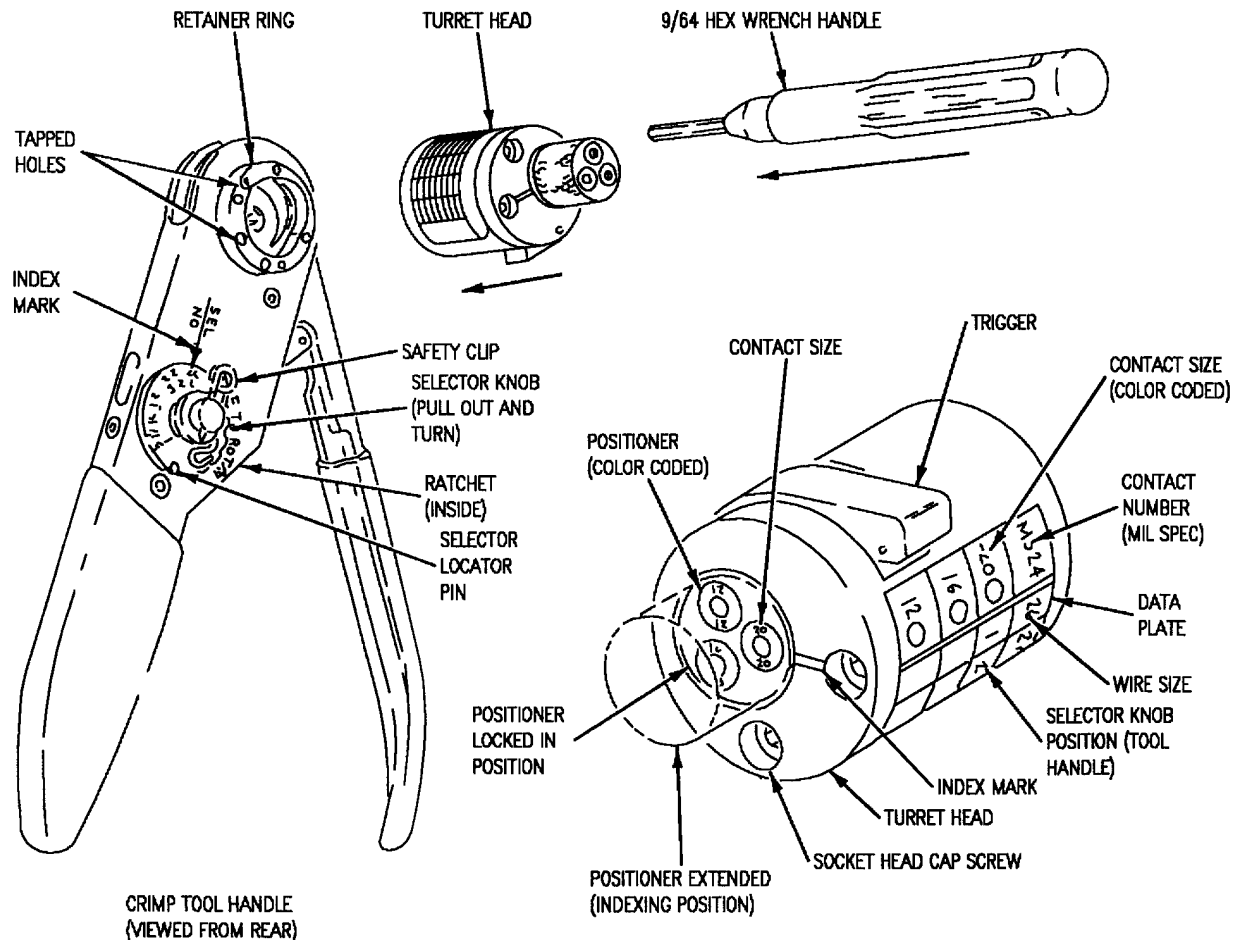
Crimp tool handle shall be fully open when inserting turret of positioner head and when changing selector positions.

a. Press trigger of turret head releasing positioner to extended (indexing) position. See figure 6.

b. Seat turret head onto retaining ring on back of tool with socket head cap screws lined up with tapped holes.

c. Tighten socket head screws with a 9/64-inch hex wrench.

d. To remove turret head, loosen socket head screw until threads are disengaged from tapped holes and lift off crimp tool.



F/A-18-WRM-(405-1)01-SCAN

Figure 6. M22520/1-01 Crimp Tool Handle and Turret Head

10. ADJUSTING TURRET HEAD BEFORE CRIMPING.

- a. Press trigger on turret head releasing positioner to extended (indexing) position.
- b. Select position desired from color coded data plate on side of turret head assembly.
- c. Rotate positioners until color coded positioner is lined up with index mark.
- d. Press positioner into turret head until it snaps into locked position.

11. SETTING SELECTOR KNOB USING TURRET HEAD.

- a. Refer to data plate on turret head assembly. The correct selector number is listed below the wire size and opposite the contact size.

- b. Remove the safety clip lock from selector knob.
- c. Raise selector knob and rotate to selector number found on data plate.
- d. Replace safety clip.

12. CRIMP TOOL HANDLE M22520/2-01 ASSEMBLY AND ADJUSTMENTS.

NOTE

Make sure crimp tool is operating correctly by using M22520/3-1 inspection gage.

- a. Select crimp tool handle and positioner specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

13. REMOVAL AND INSTALLATION OF POSITIONER.

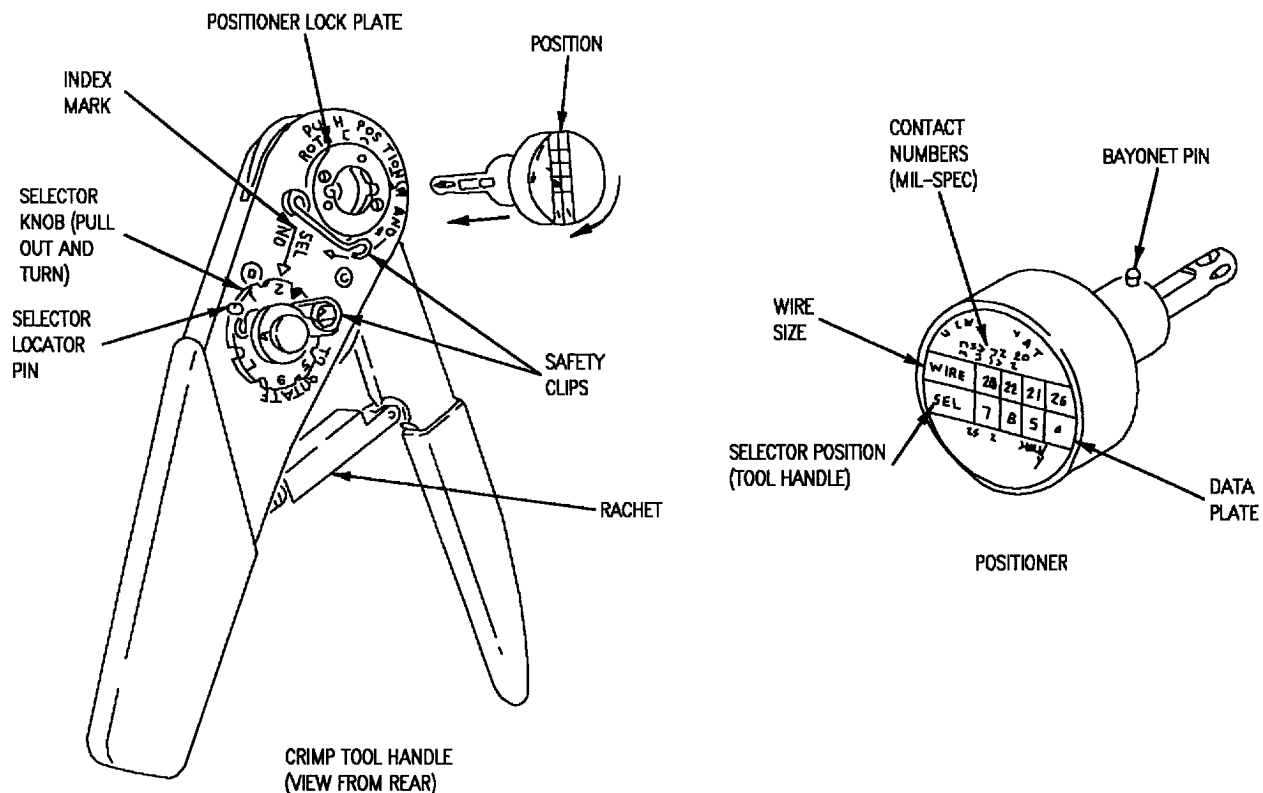
NOTE

Tool handle shall be fully open when inserting turret of positioner head and when changing selector positions.

a. Align bayonet pins on positioner with keyway on positioner lock plate. See figure 7.

b. Push positioner into lock plate until it bottoms, maintain pressure and turn clockwise until it stops. Insert safety clip.

c. To remove, pull safety clip out. Turn positioner counter clockwise until it stops and lift straight up out of lock plate.



F/A-18-WRM-(405-2)01-SCAN

Figure 7. M22520/2-01 Crimp Tool Handle and Positioner

14. SETTING SELECTOR KNOB.

a. Locate wire size on data plate of positioner and note corresponding selector number.

b. Remove safety clip. Lift selector knob and rotate until selector number found on data plate aligns with index.

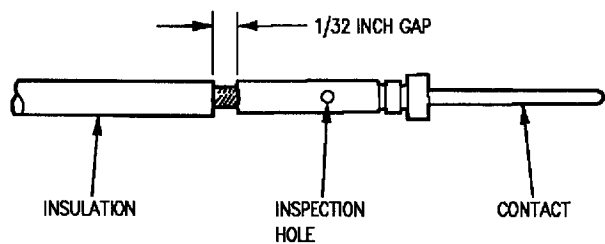
c. Install safety clip.

15. CONTACT CRIMPING.

a. Select correct contact specified in table 2 for affected connector part number.

b. Insert stripped wire into contact and make sure wire strands are visible in contact inspection hole.

c. Visually inspect gap dimension between contact and insulation as shown in figure 8.



F/A-18-WRM-(416-1)01-SCAN

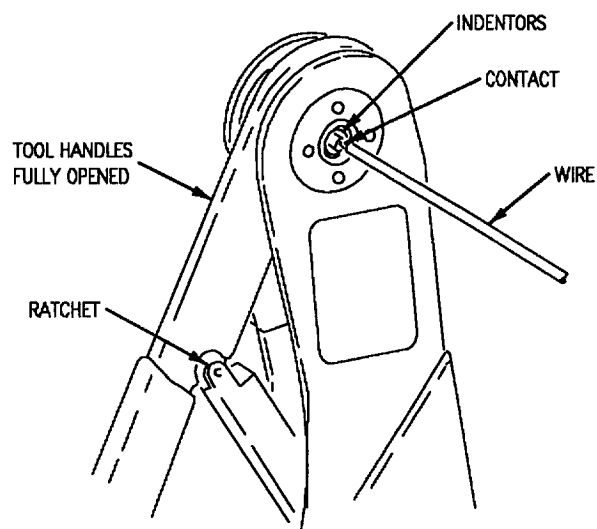
Figure 8. Strip Gap Check

d. Insert contact and wire into crimp tool indentors on front of tool until contact bottoms in positioner/turret. See figure 9, detail A.

NOTE

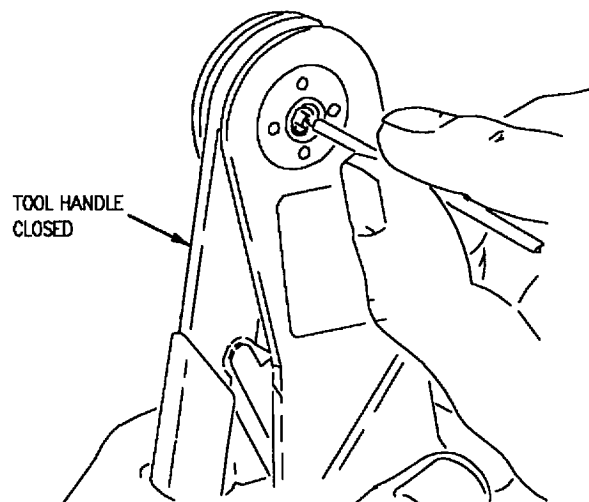
Crimp tool will not release until crimping cycle is completed.

e. Hold wire in place and squeeze tool handles together smoothly until ratchet releases and tool opens. See figure 9, detail B.



CRIMP TOOL HANDLE
(VIEWED FROM FRONT)

DETAIL A



DETAIL B

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Figure 9. Contact Crimping

f. Remove crimped contact from tool and inspect wire strands in contact inspection hole figure 10.

(1) Two series of four indents shall grip wire and secure contact to wire.

(2) Wire shall be visible in contact inspection hole, indicating that wire is crimped into contact at correct depth.

(3) There shall be no loose or nicked strands.

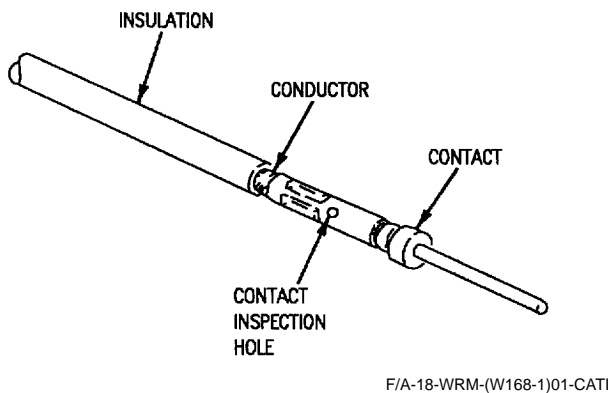


Figure 10. Inspection of Crimped Contact

16. INSERTION OF CONTACT INTO CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, 24vdc battery voltage exists in some wiring.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Select insertion tool specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.

WARNING

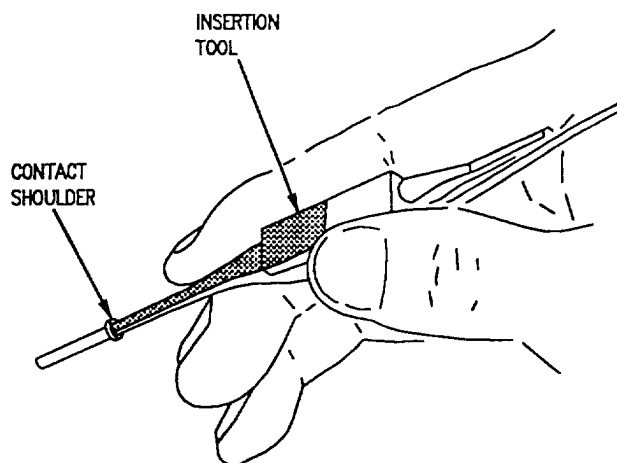
Isopropyl alcohol is highly flammable. Do not use near open flame or sparks. Use only in well ventilated areas.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Place wire and contact assembly into insertion tool and position tool tip over crimp barrel to butt contact shoulder. See figure 11.



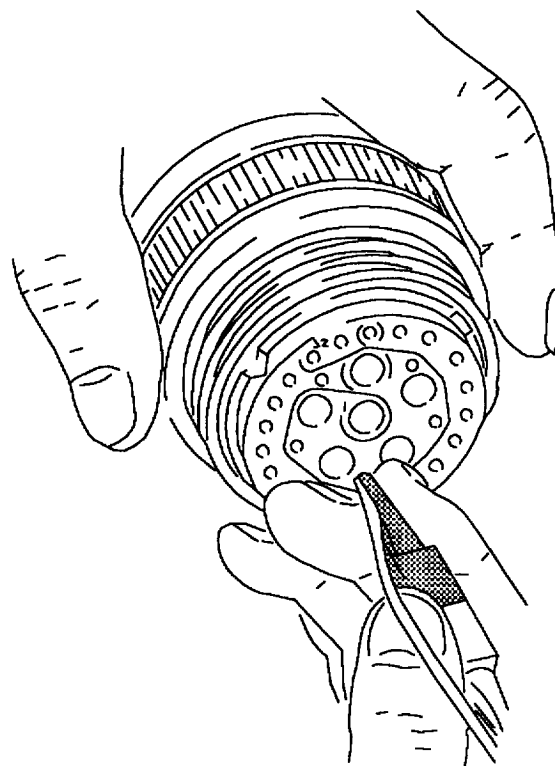
Damage may occur to contact removal tool if tilted or rotated when in connector insert.



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Figure 11. Inserting Contact into Insertion Tool

e. At right angle to connector insert, align contact with cavity in connector and press contact firmly with insertion tool to seat contact in cavity. Slight click may be heard as retention tines snap into place behind contact shoulder. See figure 12.



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Figure 12. Inserting Contacts into Connector

f. Remove insertion tool by pulling it straight out of contact cavity and disengage from wire. Carefully pull back on wire to make sure contact is correctly seated.

g. Fill all unused contact cavities with uncrimped contacts, then insert sealing plug, small diameter first, until it bottoms against contact cavity. See figure 13.

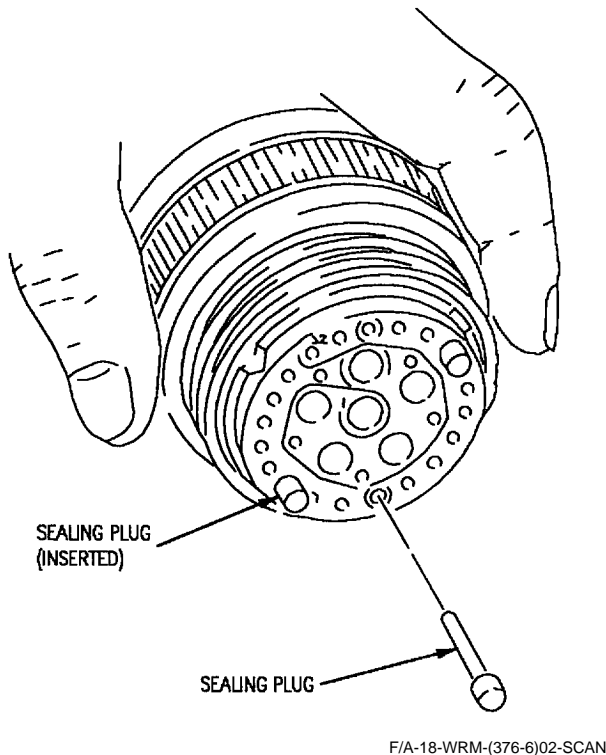


Figure 13. Inserting Sealing Plug(s) into Connector

17. WIRED CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, vac battery voltage exists in some wiring.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Select removal tool specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.



Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

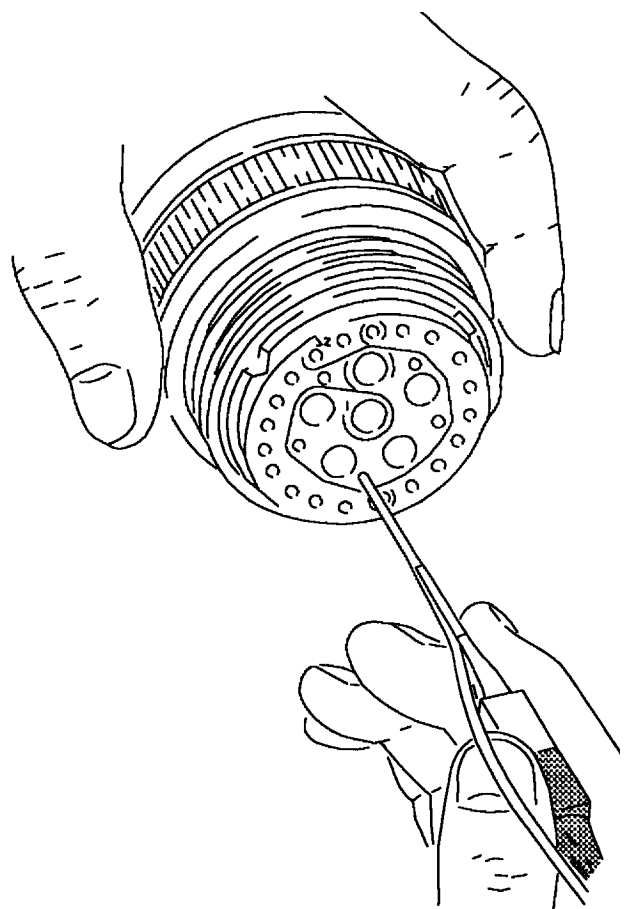
WARNING

Isopropyl alcohol is highly flammable. Do not use near open flame or sparks. Use only in well ventilated areas.

c. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

d. Place wire of contact to be removed into removal tool, with tool tip facing connector insert.

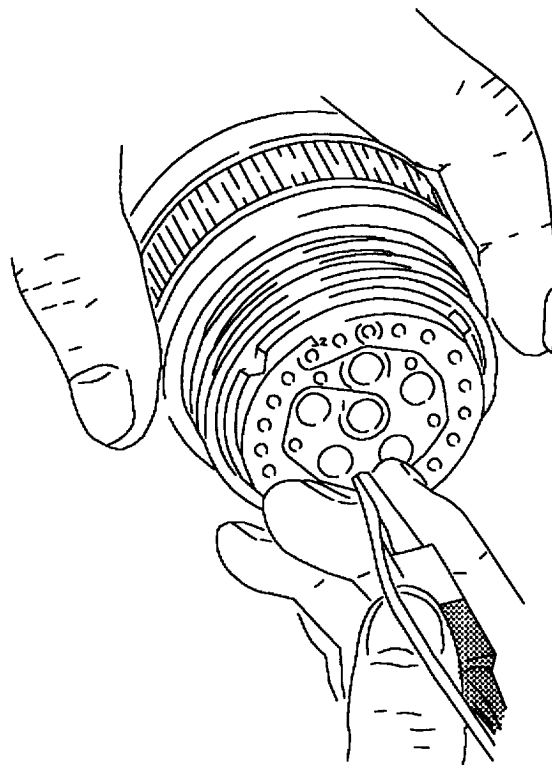
e. Slide removal tool along wire at right angle to connector insert and align with contact cavity. See figure 14.



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Figure 14. Removal Tool on Wire

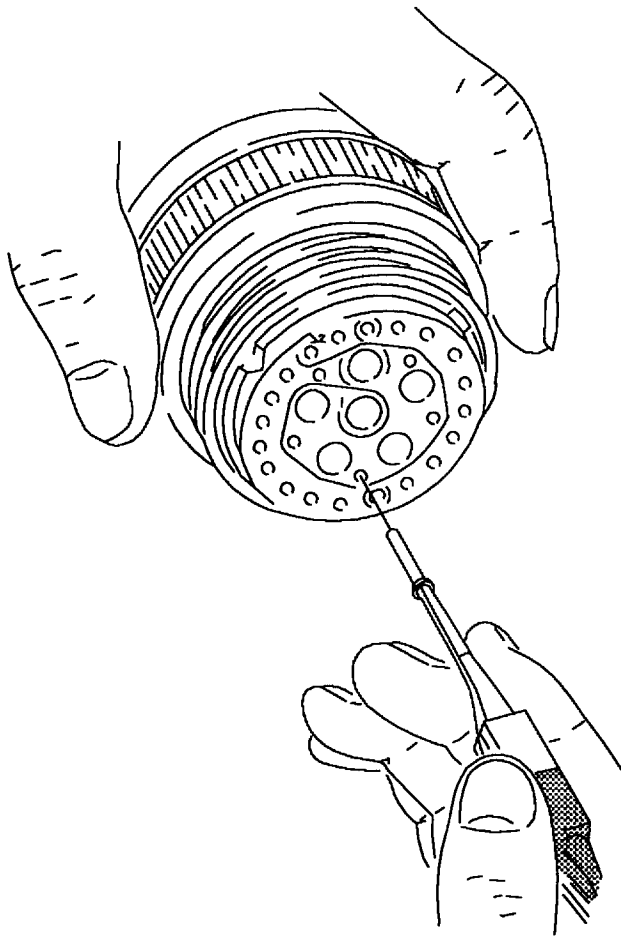
f. Insert tool into contact cavity until tool tip bottoms against contact shoulder. See figure 15.



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Figure 15. Unlocking Contact Mechanism

g. Hold wire and tool and pull straight out from contact cavity. See figure 16.



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Figure 16. Removing Contact from Connector

18. UNWIRED CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, vac battery voltage exists in some wiring.

a. If backshell requires disassembly do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Select unwired removal tool(s) specified in table 1 Tool Data in the correct connector data figure number. The connector data figure number is found by locating the reference designation in the Reference Designation to Figure Number Index within this work package.



Damage may occur if contact removal tool is tilted or misaligned when in connector insert.

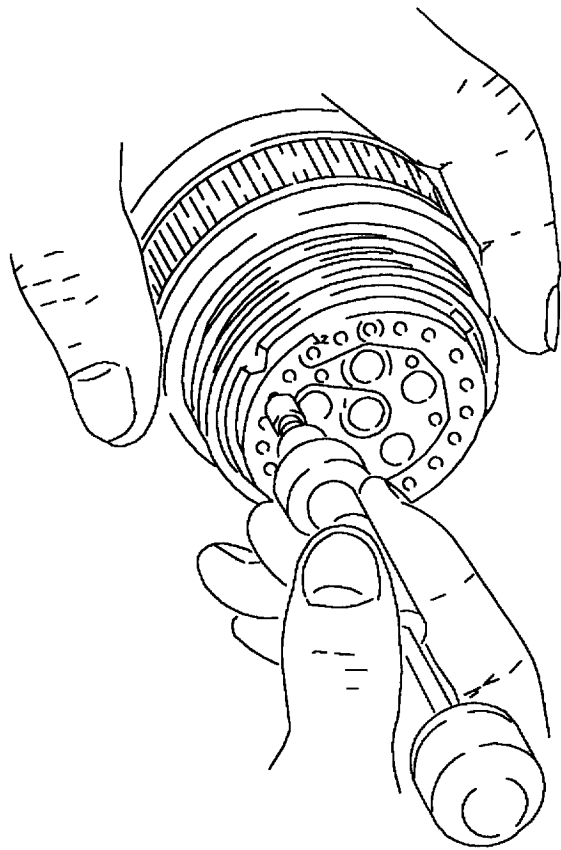
c. Align unwired removal tool, at the rear and at a right angle to connector, with contact to be removed.

WARNING

Isopropyl alcohol is highly flammable. Do not use near open flame or sparks. Use only in well ventilated areas.

d. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

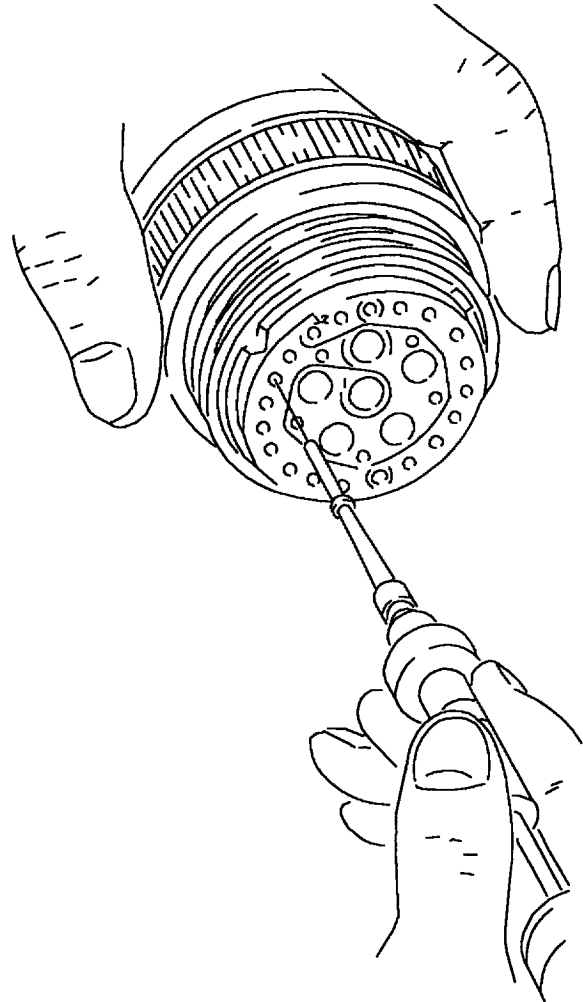
e. Insert unwired removal tool tip into contact cavity until it bottoms in contact cavity and release contact retention mechanism. See figure 17.



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Figure 17. Unlocking Contact Retention Mechanism with Unwired Contact Removal Tool

f. Grip tool and withdraw unwired removal tool and contact from rear of the connector. See figure 18.



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Figure 18. Extracting Contact from Connector

g. Remove contact by holding unwired removal tool and press plunger forward.

19. BROKEN WIRE CONTACT REMOVAL FROM CONNECTOR.



To prevent damage to aircraft wiring or equipment, disconnect both the utility battery and the emergency battery. Refer to A1-F18AC-420-300, WP019 00 and WP020 00. When electrical power is off, vac battery voltage exists in some wiring.

a. If backshell requires disassembly, do the sub-steps below:

(1) Determine correct connector data figure number from the Reference Designation to Figure Number Index within this work package.

(2) To remove boot and backshell from connector, refer to backshell work package listed in Reference Work Package column of Reference Designation to Backshell Data Index.

b. Remove hardware from rear of connector and slide back over wire bundle.

c. Select removal tool specified in table 1 for affected connector part number.

WARNING

Isopropyl alcohol is highly flammable. Do not use near open flame or sparks. Use only in well ventilated areas.

d. Isopropyl alcohol may be used as a lubricant for removal of contacts. Apply by brushing on connector insert grommet face or by dipping tool.

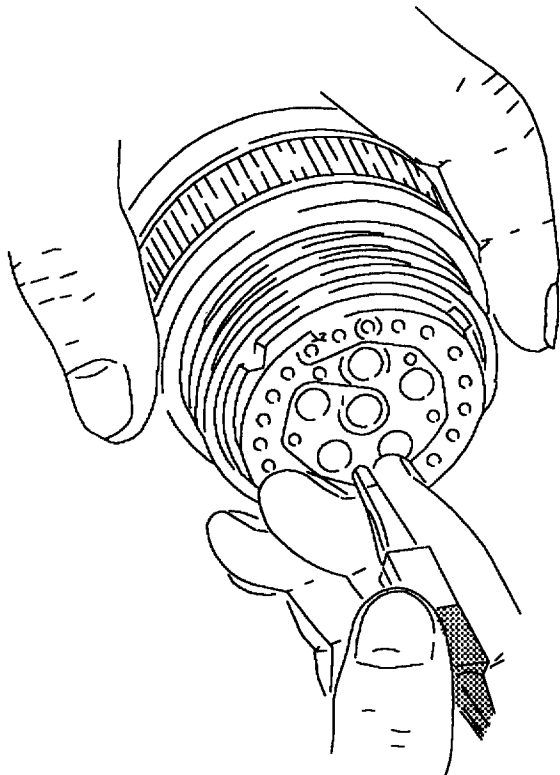
e. Insert tip of removal tool 1/8-inch into cavity at rear of connector.



Wire strands may be encountered at any point during tool insertion. Do not jam wire strands in contact cavity. Withdraw removal tool anytime during insertion when it cannot be advanced into connector using these procedures. Inspect tool tip for nicks, cracks, mushrooming and other damage that will prevent its functioning. Replace removal tool and repeat procedure if required.

f. Carefully insert removal tool into contact cavity in 1/16-inch increments, releasing tool after each increment if resistance is felt.

g. If resistance is felt before removal tool reaches back end of contact withdraw tool slightly, rotate 1/6 of a turn, and reinsert tool. Repeat rotation and insertion procedure until tool passes with minimal additional force and bottoms in contact cavity. See figure 19.



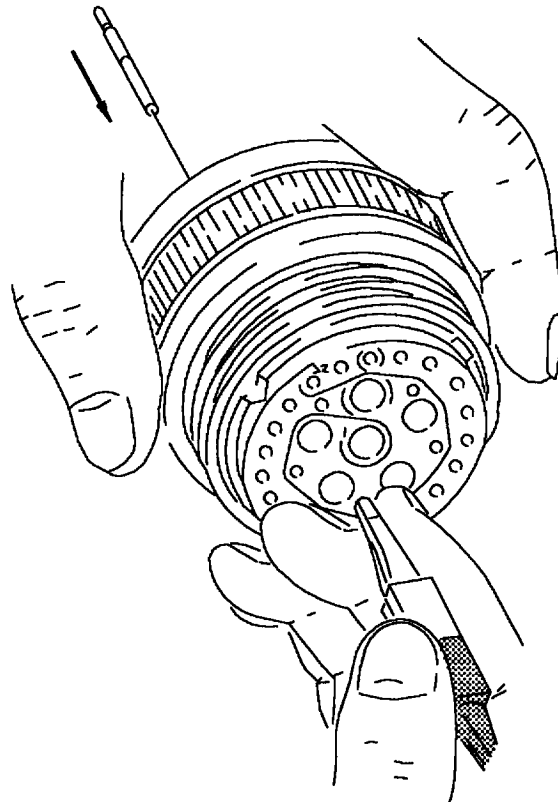
F/A-18-WRM-(376-17)02-SCAN

Figure 19. Unlocking Contact Retention Mechanism of Broken Wire Contact

h. Wiggle removal tool carefully to help it into contact cavity and over contact. Additional rotation may be required if broken strands are encountered.

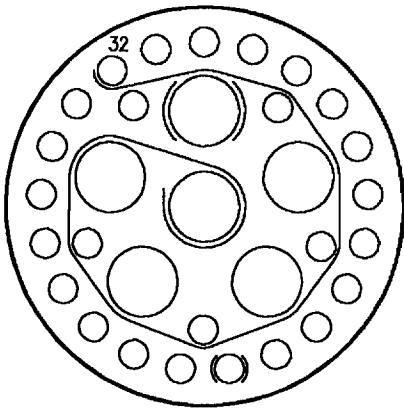
i. Continue insert of removal tool until positive stop is felt.

j. Exert pressure at right angle to connector insert engaging end of contact. Using a mating contact as pusher (if contact does not move, seat removal tool more firmly). See figure 20.



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Figure 20. Broken Wire Contact Removal



AS VIEWED FROM REAR OF CONNECTOR

F/A-18-WRM-(331-1)02-CATI

Reference Designation to Backshell Data Index for M83723-76A2232N Connector

REFERENCE DESIGNATION	BACKSHELL	REFERENCE WORK PACKAGE
64P-E001Q	M85049/52-1-22W	080 00
161353 THRU 161528		

Table 1. Tool Data

ITEM	TOOL NUMBER
Crimp Tool Handle	M22520/1-01
Positioner	M22520/1-02
Crimp Tool Handle	M22520/2-01
Turret Head	M22520/1-02
Insertion Tool (Red)	M81969/14-02
Removal Tool (White)	M81969/14-02
Removal Tool (Unwired)	DRK110-1SA
Removal Tool Probe (Red)	DRK110-20-2

Table 2. Contact Data

CONTACT	STRIP DIMENSION (+1/32 INCH)	CONTACT PART NO.	SEALING PLUG PART NO.
1, 2, 4, 6, 8 and 10 3, 5, 7, 9 AND 11 THRU 32	5/32	48-1226-02 M39029/4-110	MS27488-12 MS31187-20-2

Figure 21. M83723-76A2232N Connector

